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ABSTRACT

Provided is a listing of all National Science Foundation (NSF) program grants and contracts awarded in Fiscal Year 1981. The listing is organized by specific NSF programs within these areas: (1) mathematical and physical sciences; (2) engineering; (3) biological, behavioral, and social sciences; (4) astronomical, atmospheric, earth, and ocean sciences (includes National Research Centers and Arctic Research Program); (5) scientific, technological, and international affairs; (6) ocean drilling, United States Antarctic Research Program, and other programs; (7) science and engineering education and fellowships; (8) special foreign currency (includes scientific and technological information, scientific research, international travel); and (9) fellowships and traineeship awards. Awards are arranged by state or country and, within each state or country, by institution. Information provided for each award includes principal investigator(s), project title, award number, project duration, and amount awarded. (JN)

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National Science Foundation

Grants and Awards for Fiscal Year 1981

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National Science Foundation

Grants and Awards for Fiscal Year 1981

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INTRODUCTION

This report is a listing of all NSF program grants and contracts awarded in Fiscal Year 1981 and is organized by NSF program. The awards are arranged by state or country and, within each state or country, by institution.

An asterisk following the award number indicates that the project is funded by more than one NSF program or appropriation and may appear more than once in the report.

The table entitled "Fellowship Awards" reflects the number of awards accepted.

INCLUSION AND EXCLUSIONS

This report includes all grants and contracts funded from the National Science Foundation's Salaries and Expenses Appropriation and Special Foreign Currency Appropriation.
This report excludes the following:

Transactions funded from Program Development and Management Funds (such as procurements for routine housekeeping activities).

Awards (or portions of awards) using funds transferred to NSF by other Federal agencies.

Administrative transactions such as extensions of project duration or amendments to modify grant or contract terms which do not involve the obligation of FY 1981 funds.

MATHEMATICAL AND PHYSICAL SCIENCE

CHEMISTRY

ALABAMA

AUBURN UNIVERSITY MAIN CAMPUS

SHEVLIN, PHILIP B; *REACTIONS OF ATOMIC CARBON AND RELATED HIGH ENERGY INTERMEDIATES (CHE-8103034);* 12 MONTHS $41,000

UNIVERSITY OF ALABAMA

PITTMAN, CHARLES U; *HIGHER ALCOHOL PRODUCTION: DEVELOPMENT OF IMPROVED CATALYST SYSTEMS (CHE-7824875 A02*);* 12 MONTHS $49,033

VISSCHER, PIETER B; *CALCULATION OF TRANSPORT COEFFICIENTS IN FLUIDS (CHE-8106122);* 24 MONTHS $22,000

ATWOOD, JERRY L; *SYNTHETIC AND STRUCTURAL CHARACTERIZATION OF NOVEL COMPOUNDS THAT POSSESS METAL-CARBON SIGMA BONDS (CHE-8111137);* 12 MONTHS $49,852

UNIVERSITY OF SOUTH ALABAMA

TOREN, E C; *SELECTIVITY BY AND CHARACTERIZATION OF POST-COLUMN REACTION DETECTORS (CHE-8101123);* 12 MONTHS $67,220

ARIZONA

ARIZONA STATE UNIVERSITY

LIN, SHENG H; *INVESTIGATION OF THE MASTER EQUATION METHOD AND VIBRATIONAL RELAXATION IN ISOLATED MOLECULES (CHE-8007938);* 12 MONTHS $28,000

MOORE, THOMAS A, AND BENIN, DAVID; *ENERGIES OF METASTABLE EXCITED STATES OF BIOMOLECULES DETERMINED BY PHOTOACOUSTIC SPECTROSCOPY. THE LOWEST EXCITED TRIPLET ENERGY OF CAROTENOID POLYENES (CHE-8021718);* 12 MONTHS $32,494

UNIVERSITY OF ARIZONA

SHOEMAKER, RICHARD L; *MOLECULAR RELAXATION AND COHERENT TRANSIENT EFFECTS (CHE-7824085 A02);* 12 MONTHS $49,539

FELTHAM, ROBERT D; *REACTIONS OF COORDINATED NITROGEN OXIDES (CHE-8000245 A01);* 12 MONTHS $51,000

BATES, ROBERT B; *DELOCALIZED CARBANIONS IN SYNTHESIS (CHE-8015306 A01);* 12 MONTHS $34,500

ARMSTRONG, NEAL R; *PHOTOELECTROCHEMICAL AND ELECTROCHROMIC REACTIONS AT CHEMICALLY-MODIFIED ELECTRODE SURFACES (CHE-8017571);* 12 MONTHS $66,170

WILSON, GEORGE S; *ANALYTICAL APPLICATIONS OF SEMI-SYNTHETIC BIOSURFACES (CHE-8022286);* 12 MONTHS $52,500

NELSON, GREGORY O; *SYNTHESIS AND REACTIVITY OF BIS-CYCLOPENTADIENYL BRIDGED DINUCLEAR TRANSITION METAL COMPLEXES (CHE-8102918);* 12 MONTHS $43,500

REMERS, WILLIAM A; *PURCHASE OF MASS SPECTROMETER ACCESSORIES (CHE-8105089);* 12 MONTHS $25,000

ARKANSAS

UNIVERSITY OF ARKANSAS FAYETTEVILLE

SIEGEL, SAMUEL; *A COMPARISON OF MONONUCLEAR COMPLEXES OF RHODIUM WITH SUPPORTED PLATINUM METALS AS CATALYSTS FOR HYDROGENATION AND RELATED REACTIONS (CHE-7826611 A02);* 12 MONTHS $44,300

SCHAFER, LOTHAR; *INVESTIGATIONS CONCERNING THE JOINT APPLICABILITY OF AB INITIO FORCE RELAXATIONS AND EXPERIMENTAL PROCEDURES IN PROBLEMS OF STRUCTURAL CHEMISTRY (CHE-7920790 A01);* 12 MONTHS $24,000

FRY, ARTHUR, AND SIMS, LESLIE B; *HEAVY ATOM ISOTOPE EFFECT STUDIES OF ORGANIC REACTION MECHANISMS (CHE-8016398);* 12 MONTHS $89,000

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

GRAY, HARRY B; *PHOTOCHEMISTRY OF METAL-ISOCYANIDE COMPLEXES (CHE-7950006 A19);* 12 MONTHS $61,000

IRELAND, ROBERT E; *THE TOTAL SYNTHESIS OF MACROLIDE ANTIBIOTICS (CHE-7950006 A30);* 12 MONTHS $79,000

ROBERTS, JOHN D; *NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY. STRUCTURES AND REACTION MECHANISM OF ORGANIC COMPOUNDS (CHE-7950006 A21);* 12 MONTHS $105,000

GRUBBS, ROBERT H; *MECHANISMS OF TRANSITION METAL-CATALYZED REACTIONS OF HYDROCARBONS (CHE-8016528);* 12 MONTHS $135,400

MARCUS, RUDOLPH A; *THEORETICAL STUDIES IN CHEMICAL KINETICS (CHE-8017046);* 12 MONTHS $91,749

MARCUS, RUDOLPH A; *THEORETICAL STUDIES IN CHEMICAL KINETICS (CHE-8017046 A01);* $1,920

GODDARD, WILLIAM A; *REACTION MECHANISMS FOR HOMOGENEOUS CATALYSIS (CHE-8017774);* 12 MONTHS $64,041

DOUGHERTY, DENNIS A; *NEW PERSISTENT BIRADICALS: DIRECT CHARACTERIZATION OF HIGHLY REACTIVE ORGANIC INTERMEDIATES (CHE-8024663);* 12 MONTHS $58,000

BERCAW, JOHN E; *STUDIES OF BINUCLEAR TRANSITION METAL COMPLEXES (CHE-8024831);* 12 MONTHS $43,000

GRAY, HARRY B; *METALLOENZYME REDUCTION - OXIDATION MECHANISMS (CHE-8024863);* 12 MONTHS $160,000

BERCAW, JOHN E; *THE ACTIVATION OF MOLECULAR NITROGEN, CARBON MONOXIDE, AND HYDROCARBONS WITH ORGANOMETALLIC COMPOUNDS (CHE-8024869);* 12 MONTHS $187,427

MCKOY, VINCENT; *ELECTRON-MOLECULE AND ELECTRON-MOLECULAR ION SCATTERING CROSS SECTIONS AND RELATED PROCESSES (CHE-8040870);* 12 MONTHS $62,060

EVANS, DAVID A; *STUDIES IN ORGANIC SYNTHESIS (CHE-8101743);* 12 MONTHS $103,596

COLLINS, TERRENCE J; *NEW HIGH VALENT TRANSITION METAL COMPLEXES AS REAGENTS FOR ORGANIC SYNTHESIS (CHE-8107535);* 12 MONTHS $49,700

DERVAN, PETER B; *PERSISTENT DIAZENES AND OTHER REACTIVE INTERMEDIATES (CHE-8111197);* 12 MONTHS $80,000

ANSON, FRED C; *CATALYSIS, ADSORPTION, AND CHARGE TRANSFER KINETICS IN REACTIONS AT ELECTRODES (CHE-8111565);* 12 MONTHS $152,187

BALDESCHWIELER , JOHN D; *NEW PHYSICAL METHODS FOR THE STUDY OF BIOLOGICAL SYSTEMS (CHE-8112589);* 12 MONTHS $117,365

ZEWAIL, AHMED H; *HIGH-ENERGY, VIBRATIONAL OVERTONES OF MOLECULES IN SOLIDS: LOCAL MODES AND INTRAMOLECULAR RELAXATIONS (CHE-8112833);* 12 MONTHS $51,000

WEINBERG, W HENRY; *CHEMISORPTION & HETEROGENEOUS CATALYSIS OF NITROGEN & CARBON CONTAINING MOLECULES UNDER WELL CHARACTERIZED CONDITIONS OVER GROUP VIII TRANSITION METALS (CHE-8116716);* 12 MONTHS $125,000

CALIFORNIA STATE UNIVERSITY, FULLERTON

FINLAYSON-PITTS, BARBARA; *THE REACTION OF HYDROGEN ATOMS WITH OZONE (CHE-7920909 A01);* 12 MONTHS $42,000

CALIFORNIA STATE UNIVERSITY, LONG BEACH

JENSEN, JAMES L; *MECHANISMS OF ACETAL AND HEMIACETAL HYDROLYSES (CHE-7907588 A02);* 12 MONTHS $21,700

CALIFORNIA STATE UNIVERSITY, LOS ANGELES

ONAK, THOMAS P; *CARBORANE CHEMISTRY (CHE-8024115);* 12 MONTHS $32,700

HARVEY MUDD COLLEGE

MYHRE, PHILIP C; *INDUSTRIAL/UNIVERSITY COOPERATIVE PROGRAM: CARBON-13 NMR STUDIES OF CARBONIUM IONS IN THE SOLID STATE (CHE-8020743*);* 12 MONTHS $25,140

LAWRENCE BERKELEY LABORATORY

HYDE, EARL K; *OPERATIONAL SUPPORT OF THE NATIONAL RESOURCE FOR COMPUTATION IN CHEMISTRY (NRCC) (CHE-7721305 A04*);* 32 MONTHS $572,600

NAVAL POSTGRADUATE SCHOOL

HARRISON, DON E; *CLASSICAL TRAJECTORY STUDIES OF LOW ENERGY ION IMPACT MECHANISMS ON CLEAN AND REACTED SINGLE CRYSTAL SURFACES (CHE-7820474 A02);* 12 MONTHS $39,200

SRI INTERNATIONAL

SMITH, GREGORY P, LAINE, RICHARD M, AND GOLDEN, DAVID M; *BOND DISSOCIATION ENERGIES FROM GAS PHASE KINETICS STUDIES OF NEUTRAL TRANSITION METAL COMPLEXES AND ORGANOMETALLIC COMPOUNDS (CHE-7923569 A01);* 12 MONTHS $85,000

COSBY, PHILIP C; *PHOTOFRAGMENT SPECTROSCOPY OF MOLECULAR IONS (CHE-8015360);* 12 MONTHS $37,995

BECKER, CHRISTOPH H; *GAS-LIQUID SURFACE INTERACTIONS OBSERVED AND STIMULATED BY LASERS (CHE-8113676)*; 12 MONTHS $100,000

STANFORD UNIVERSITY

COLLMAN, JAMES P; *SYNTHETIC STUDIES IN HOMOGENEOUS CATALYSIS (CHE-7809443 A03)*; 12 MONTHS $144,300

BRAUMAN, JOHN I; *GAS-PHASE IONIC CHEMISTRY AND SPECTROSCOPY (CHE-7821064 A02)*; 12 MONTHS $115,000

PECORA, ROBERT; *THEORETICAL AND EXPERIMENTAL STUDIES OF THERMAL MOTIONS IN LIQUIDS AND POLYMER SYSTEMS (CHE-7901070 A02*)*; 12 MONTHS $32,000

TAUBE, HENRY; *OXIDATION-REDUCTION MECHANISMS (CHE-7908633 A02)*; 12 MONTHS $115,200

VAN TAMELEN, EUGENE E; *BIOGENESIS AND BIOGENETICALLY-PATTERNED SYNTHESES OF NATURAL PRODUCTS AND RELATED SUBSTANCES (CHE-8002661 A01)*; 12 MONTHS $72,500

JOHNSON, WILLIAM S; *SYNTHETIC STUDIES RELATED TO NATURAL PRODUCTS (CHE-8004113 A01)*; 12 MONTHS $93,801

ZARE, RICHARD N; *CHEMISTRY OF EXCITED MERCURY ATOMS (CHE-8006524 A01)*; 12 MONTHS $139,000

ROSS, JOHN; *THEORY AND EXPERIMENTS ON IRREVERSIBLE CHEMICAL PROCESSES (CHE-8017231 A01)*; 12 MONTHS $137,353

DJERASSI, CARL; *CIRCULAR DICHROISM OF CYCLIC KETONES; CONFORMATIONAL ISOTOPE EFFECTS (CHE-8025733)*; 12 MONTHS $68,000

ANDERSEN, HANS C; *STATISTICAL MECHANICS OF CONDENSED PHASES (CHE-8107165)*; 14 MONTHS $97,000

ZARE, RICHARD N; *STATE SELECTION AND STATE DETECTION OF MOLECULES WITH LASERS (CHE-8108823)*; 12 MONTHS $207,970

BRAUMAN, JOHN I; *PURCHASE OF HIGH FIELD NMR SPECTROMETER (CHE-8109064)*; 12 MONTHS $179,000

COLLMAN, JAMES P; *REVERSIBLE OXYGEN ELECTRODE: COLLABORATIVE SEARCH FOR NEW CATALYSTS AND PHYSICAL TEXTURES (CHE-8110545*)*; 9 MONTHS $132,787

WENDER, PAUL A; *APPROACHES TO IMPROVED SYNTHESIS DESIGN: MECHANISTIC AND SYNTHETIC STUDIES ON NEW ANNELATION METHODS (CHE-8117646)*; 8 MONTHS $18,373

UNIVERSITY OF CALIFORNIA, BERKELEY

MUETTERTIES, EARL L; *EXPLORATORY AND FUNDAMENTAL STUDIES IN COORDINATION AND COORDINATION CATALYSIS (CHE-7903933 A02)*; 12 MONTHS $175,826

VOLLHARDT, K PETER C; *TRANSITION METAL AND HEAT MEDIATED ORGANIC TRANSFORMATIONS (CHE-7903954 A02)*; 12 MONTHS $45,000

HEATHCOCK, CLAYTON H; *GENERAL METHODS FOR ALKALOID SYNTHESIS (CHE-7906344 A02)*; 16 MONTHS $79,306

HARRIS, ROBERT A; *THEORETICAL STUDIES OF ATOMIC AND MOLECULAR SYSTEMS (CHE-7908909 A02)*; 12 MONTHS $41,949

HILL, CRAIG L; *CONSTRAINING BINUCLEATING LIGAND SYSTEMS. STUDY OF COOPERATIVE CHEMISTRY AND CATALYSIS BY METALS (CHE-7909730 A02)*; 12 MONTHS $51,067

STREITWIESER, ANDREW; *CARBON ACIDITY (CHE-7910814 A02)*; 12 MONTHS $59,000

SOMORJAI, GABOR A; *ENERGY TRANSFER IN REACTIVE AND NONREACTIVE GAS-SURFACE COLLISIONS (CHE-7911907 A02)*; 12 MONTHS $50,000

MOORE, C BRADLEY; *KINETICS AND SPECTROSCOPY OF DYNAMIC INTERMEDIATES (CHE-7918027 A01)*; 12 MONTHS $45,000

TEMPLETON, DAVID H; *ANOMALOUS SCATTERING OF SYNCHROTRON RADIATION (CHE-7919532 A01)*; 12 MONTHS $45,000

MILLER, WILLIAM H; *THEORY OF CHEMICAL DYNAMICS (CHE-7920181 A02)*; 12 MONTHS $99,628

BERGMAN, ROBERT G; *ORGANIC AND ORGANOMETALLIC CHEMISTRY (CHE-7926291 A01)*; 12 MONTHS $126,000

SAYKALLY, RICHARD J; *INFRARED LASER SPECTROSCOPY OF TRANSIENT SPECIES (CHE-8007042 A01*)*; 12 MONTHS $30,520

SCHAEFER, HENRY F; *ELECTRONIC THEORY OF SIMPLE CHEMICAL REACTIONS (CHE-8009320 A01)*; 12 MONTHS $89,582

HARRIS, CHARLES B; *ENERGY TRANSFER PROCESSES AND COHERENCE IN CONDENSED PHASE (CHE-8016891)*; 12 MONTHS $213,110

STRAUSS, HERBERT L; *DYNAMICAL PROCESSES BY VIBRATIONAL SPECTROSCOPY (CHE-8022216)*; 12 MONTHS $102,000

TINOCO, IGNACIO; *ACQUISITION OF A DEPARTMENTAL SQUID MAGNETOMETER (CHE-8026039)*; 12 MONTHS $57,000

DAUBEN, WILLIAM G; *STRUCTURAL STUDIES IN ALICYCLIC SYSTEMS (CHE-8102938)*; 12 MONTHS $99,659

PRATT, LAWRENCE R; *THEORY OF ASSOCIATED MOLECULAR LIQUIDS, AND THEORY OF MICELLE STRUCTURE AND STABILITY (CHE-8111104)*; 12 MONTHS $37,500

MATHIES, RICHARD A; *VISIBLE AND ULTRAVIOLET RAMAN STUDIES OF EXCITED STATES IN PROTEINS (CHE-8116042*)*; 4 MONTHS $89,020

UNIVERSITY OF CALIFORNIA, DAVIS

ZWEIFEL, GEORGE; *PREPARATIONS AND REACTIONS OF ORGANOBORANES AND ORGANOALANES DERIVED FROM ALKYNES (CHE-7825185 A02)*; 12 MONTHS $34,300

SMITH, KEVIN M; *SYNTHESES AND METABOLISM OF CHLOROPHYLLS (CHE-7825557 A02)*; 12 MONTHS $30,523

MAKI, AUGUST H; *MICROWAVE-OPTICAL STUDIES OF EXCITED ELECTRONIC STATES (CHE-7910394 A02)*; 12 MONTHS $40,000

BALCH, ALAN L; *CHEMICAL AND PHYSICAL STUDIES OF POLYNUCLEAR METAL COMPLEXES (CHE-7924575 A01)*; 12 MONTHS $36,300

KEIZER, JOEL E; *THEORY OF SPATIAL AND TEMPORAL CORRELATIONS IN NONEQUILIBRIUM THERMODYNAMICS (CHE-8009816 A01)*; 12 MONTHS $50,000

MUSKER, W KENNETH; *THE CHEMISTRY OF THIOETHERS: CATIONS AND COPPER COMPLEXES (CHE-8015489)*; 12 MONTHS $35,000

LA MAR, GERD N; *PARAMAGNETIC-INDUCED NUCLEAR RELAXATION AS A STRUCTURAL PROBE IN SOLUTION (CHE-8108766*)*; 12 MONTHS $92,500

ROCK, PETER A; *PURCHASE OF LASER INSTRUMENTATION (CHE-8114966)*; 12 MONTHS $95,000

UNIVERSITY OF CALIFORNIA, IRVINE

TAFT, ROBERT W; *ENERGETICS OF SUBSTITUENT AND SOLVENT EFFECTS. PROTONIC ACIDITIES AND BASICITIES (CHE-7823115 A02)*; 12 MONTHS $41,500

SHEA, KENNETH J; *SYNTHESIS AND CHEMISTRY OF BICYCLO (3.N.1) BRIDGEHEAD ALKENES (CHE-7826154 A02)*; 12 MONTHS $38,994

OVERMAN, LARRY E; *NEW SYNTHETIC REACTIONS (CHE-7901833 A02)*; 12 MONTHS $74,479

GUINN, VINCENT P; *ADVANCED PREDICTION OF NEUTRON ACTIVATION SPECTRA (CHE-7911877 A02)*; 12 MONTHS $32,809

LEE, EDWARD K C; *ELECTRONICALLY EXCITED MOLECULES (CHE-7925451 A01)*; 12 MONTHS $66,900

MCIVER, ROBERT T; *FOURIER TRANSFORM MASS SPECTROMETRY OF LOW VOLATILITY COMPOUNDS (CHE-8004355 A01)*; 12 MONTHS $43,200

MCIVER, ROBERT T; *THERMOCHEMICAL AND DYNAMIC PROPERTIES OF NEGATIVE IONS AND FREE RADICALS (CHE-8024269)*; 12 MONTHS $77,809

MOORE, HAROLD W; *SYNTHETIC AND MECHANISTIC STUDIES UTILIZING VINYL AZIDES (CHE-8025567)*; 12 MONTHS $48,042

UNIVERSITY OF CALIFORNIA, LOS ANGELES

HAWTHORNE, M FREDERI; *CATALYSIS BY METALLOCARBORANES (CHE-7850002 A39)*; 12 MONTHS $120,000

EL-SAYED, MOSTAFA A; *MOLECULAR MULTIPHOTON IONIZATION AND MULTIPHOTON ELECTRONIC DISSOCIATION (CHE-7950002 A29)*; 12 MONTHS $47,000

BAYES, KYLE D; *FREE RADICAL KINETICS BY PHOTOIONIZATION (CHE-7950002 A30)*; 12 MONTHS $40,000

MC TAGUE, JOHN P; *DYNAMICS AND INTERACTIONS IN CONDENSED SYSTEMS (CHE-7950002 A31)*; 12 MONTHS $90,000

ZINK, JEFFREY I; *TRANSITION METAL AND ORGANOMETALLIC PHOTOCHEMISTRY (CHE-7950002 A32)*; 12 MONTHS $60,600

FRIEDLANDER, SHELDON K, GIFFIN, CHARLES E, VILKER, VINCENT L, AND SINHA, MAHADEVA P; *PARTICLE ANALYSIS BY MASS SPECTROMETRY (CPE-8008186*)*; 12 MONTHS $30,000

HELLER, ERIC J; *INTRAMOLECULAR DYNAMICS AND SPECTROSCOPY (CHE-8016908)*; 12 MONTHS $94,300

FOOTE, CHRISTOPH S; *CHEMISTRY OF SINGLET OXYGEN (CHE-8020140)*; 12 MONTHS $90,300

MURDOCH, JOSEPH R; *A 'MOLECULAR CLOCK' AS A PROBE FOR THE LIFETIME OF A REACTIVE INTERMEDIATE (CHE-8021070)*; 12 MONTHS $66,800

TRUEBLOOD, KENNETH N; *STRUCTURES OF AND ENERGY CALCULATIONS FOR HOST-GUEST COMPLEXES (CHE-8022526)*; 17 MONTHS $70,000

GELBART, WILLIAM M; *LIQUID CRYSTAL PHASE TRANSITIONS: FREEZING AND MOLECULAR SHAPE EFFECTS (CHE-8024270)*; 11 MONTHS $57,000

MC TAGUE, JOHN P; *INTERNATIONAL DISCUSSION MEETING ON COMPUTER SIMULATION STUDIES OF TWO DIMENSIONAL PHASE TRANSITIONS; DECEMBER 11-13, 1980; IN LONG ISLAND, NEW YORK (CHE-8025765*)*; 12 MONTHS $5,000

SCOTT, ROBERT L; *LIQUIDS AND SOLUTIONS (CHE-8100125)*; 12 MONTHS $57,000

VALENTINE, JOAN S; *THE CHEMISTRY AND BIOCHEMISTRY OF SUPEROXIDE ANION (CHE-8104981)*; 12 MONTHS $50,000

KIVELSON, DANIEL; *EXPERIMENTAL AND THEORETICAL STUDIES OF MOLECULAR MOTIONS IN LIQUIDS (CHE-8109068)*; 14 MONTHS $130,000

GLADYSZ, JOHN A; *NEW SYNTHETIC AND MECHANISTIC CHEMISTRY OF TRANSITION METAL TRIMETHYSILANES (CHE-8109525)*; 12 MONTHS $37,922

CRAM, DONALD J; *STRUCTURAL RECOGNITION IN COMPLEXATION OF ORGANIC COMPOUNDS (CHE-8109532)*; 12 MONTHS $111,692

STROUSE, CHARLES E; *MOLECULAR TRANSFORMATIONS IN THE SOLID STATE (CHE-8110285*)*; 12 MONTHS $26,000

CHAPMAN, ORVILLE L; *SYNTHESIS AND CHARACTERIZATION OF REACTIVE MOLECULES (CHE-8111196)*; 12 MONTHS $100,000

KAESZ, HERBERT D; *STUDIES ON THE SYNTHESIS, CHARACTERIZATION AND CATALYTIC PROPERTIES OF TRANSITION METAL CLUSTER COMPLEXES (CHE-8111332)*; 12 MONTHS $103,973

REISS, HOWARD; *NUCLEATION AND GROWTH APPLIED TO THE DETECTION AND AMPLIFICATION OF CHEMICAL PHYSICAL PHENOMENA (CHE-8112658)*; 12 MONTHS $95,000

KNOBLER, CHARLES M; *EXPERIMENTAL CHARACTERIZATION OF NONEQUILIBRIUM AND EQUILIBRIUM STATES IN FLUID MIXTURES (CHE-8113140)*; 12 MONTHS $54,000

EL-SAYED, MOSTAFA A; *MOLECULAR MULTIPHOTON IONIZATION AND MULTIPHOTON ELECTRONIC DISSOCIATION (CHE-8115279)*; $10,000

STEVENS, ROBERT V; *THE SYNTHESIS OF CORRINS AND RELATED LIGANDS (CHE-8115444)*; 12 MONTHS $103,977

UNIVERSITY OF CALIFORNIA, RIVERSIDE

RETTIG, MICHAEL F, AND WING, RICHARD M; *STRUCTURAL AND CHEMICAL ASPECTS OF HALOPALLADATION (CHE-7822691 A02)*; 12 MONTHS $47,400

NEUMAN, ROBERT C; *PRESSURE EFFECTS AS PROBES OF FREE RADICAL REACTION MECHANISMS (CHE-7905954 A02)*; 12 MONTHS $36,400

SAWYER, DONALD T; *ELECTROCHEMICAL AND SPECTROSCOPIC STUDIES OF METALLOPROTEIN MODEL COMPLEXES AND OF OXYGEN ACTIVATION IN APROTIC MEDIA (CHE-7922040 A01)*; 12 MONTHS $100,000

PITTS, JAMES N; *KINETIC, SPECTROSCOPIC AND PHOTOCHEMICAL STUDIES OF RADICALS AND MOLECULES IN THE GAS PHASE AND ON SURFACES (CHE-7927133 A01)*; 12 MONTHS $63,300

WILKINS, CHARLES L; *COMPUTER-ASSISTED CHEMICAL ANALYSIS (CHE-8113612*)*; 12 MONTHS $91,733

UNIVERSITY OF CALIFORNIA, SAN DIEGO

PERRIN, CHARLES L; *PROTON EXCHANGE IN AMIDES AND RELATED COMPOUNDS (CHE-7950003 A16)*; 12 MONTHS $39,300

SHULER, KURT E; *STUDIES IN NONLINEAR STOCHASTIC PROCESSES (CHE-7950003 A17)*; 12 MONTHS $42,448

WHEELER, JOHN C; *PHASE TRANSITIONS AND CRITICAL PHENOMENA IN MULTICOMPONENT SYSTEMS (CHE-7950003 A18)*; 12 MONTHS $55,000

TRAYLOR, TEDDY G; *MECHANISMS OF HOME-CATALYZED OXIDATIONS AND OF THERMAL AND PHOTOCHEMICAL ARENE EXCHANGE REACTIONS (CHE-7950003 A19)*; 12 MONTHS $82,800

WILSON, KENT R; *MOLECULAR DYNAMICS OF CHEMICAL REACTIONS IN SOLUTION (CHE-7950003 A20)*; 12 MONTHS $68,500

VOLD, ROBERT L, AND VOLD, REGITZE R; *STUDIES OF MOLECULAR DYNAMICS IN LIQUIDS BY NUCLEAR MAGNETIC RELAXATION IN COMPLEX SPIN SYSTEMS (CHE-7950003 A21)*; 15 MONTHS $49,780

GOODMAN, MURRAY; *SYNTHESIS, CONFORMATIONAL ANALYSIS AND PROPERTIES OF SEQUENTIAL POLYDEPSIPEPTIDES (CHE-8023002*)*; 12 MONTHS $60,000

MAGDE, DOUGLAS; *PRIMARY PROCESSES IN THE PHOTOCHEMISTRY OF COORDINATION COMPOUNDS (CHE-8106967)*; 12 MONTHS $59,500

SCHRAUZER, GERHARD N; *NEW ORGANOMOLYBDENUM CHEMISTRY (CHE-8109524)*; 12 MONTHS $65,300

VOLD, ROBERT L, AND VOLD, REGITZE R; *STUDIES OF MOLECULAR DYNAMICS IN LIQUIDS BY NUCLEAR MAGNETIC RELAXATION IN COMPLEX SPIN SYSTEMS (CHE-8115892)*; 12 MONTHS $50,000

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

KOLLMAN, PETER A; *AN APPROACH TO DEVELOPING ANALYTICAL POTENTIAL FUNCTIONS FOR NON-COVALENT INTERACTIONS (CHE-8026560)*; 12 MONTHS $45,000

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

STEINBERG, M; *LASER INDUCED REACTIONS OF ALKALI METALS IN FLAMES (CHE-7821458 A02)*; 12 MONTHS $45,402

KASKA, WILLIAM C; *PHOTOCHEMICAL REACTION MECHANISMS OF TRANSITION METAL COMPLEXES (CHE-7826102 A02)*; 12 MONTHS $55,500

HUBBARD, ARTHUR T; *ELECTROCHEMISTRY OF SINGLE-CRYSTAL SURFACES (CHE-7913187 A02)*; 12 MONTHS $83,119

METIU, HORIA I; *THEORETICAL STUDY OF THE SPECTROSCOPY OF MOLECULES LOCATED NEAR METALLIC SURFACES (CHE-7918773 A01)*; 12 MONTHS $48,000

LITTLE, R D; *MICHAEL INITIATED RING CLOSURE REACTIONS (CHE-8005371 A01)*; 12 MONTHS $27,000

MARTIN, RICHARD M, AND METIU, HORIA I; *SURFACE METASTABLE QUENCHING SPECTROSCOPY (CHE-8007043 A01)*; 12 MONTHS $65,000

HARRIS, DAVID O; *PURCHASE OF AN INTERMEDIATE FIELD HIGH-RESOLUTION NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8018438)*; 12 MONTHS $140,000

BOWERS, MICHAEL T; *MECHANISMS OF GAS PHASE ION MOLECULE REACTIONS (CHE-8020464)*; 12 MONTHS $89,700

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

BUNNETT, JOSEPH F; *AROMATIC NUCLEOPHILIC SUBSTITUTION REACTIONS (CHE-7927119 A01)*; 12 MONTHS $69,000

BERNASCONI, CLAUDE F; *ELEMENTARY STEPS IN THE NUCLEOPHILIC ADDITION TO OLEFINS (CHE-8024261)*; 12 MONTHS $84,000

UNIVERSITY OF SOUTHERN CALIFORNIA

ADAMSON, ARTHUR W; *PHOTOCHEMISTRY OF COORDINATION COMPOUNDS (CHE-7801324 A03)*; 12 MONTHS $97,000

BENSON, SIDNEY W; *THE KINETICS AND THERMOCHEMISTRY OF SOME IMPORTANT ATOM AND FREE RADICAL REACTIONS (CHE-7826623 A02)*; 12 MONTHS $65,000

GOODMAN, MYRON F; *SELECTIVE LASER-INDUCED CHEMISTRY AND ISOTOPE SEPARATION IN POLYATOMICS: A THEORETICAL STUDY (CHE-7910385 A02)*; 12 MONTHS $55,000

TAYLOR, HOWARD S; *THE INTERACTION OF ELECTRONS WITH ATOMS AND MOLECULES: FUNDAMENTAL THEORIES AND PROCESSES (CHE-7910583 A02)*; 12 MONTHS $72,300

OLAH, GEORGE A; *IONIC ORGANIC REACTIONS AND THEIR INTERMEDIATES (CHE-7924387 A01)*; 12 MONTHS $63,093

ADAMSON, ARTHUR W; *THE PHYSICALLY ADSORBED STATE (CHE-8011096 A01)*; 12 MONTHS $58,000

STEPHENS, PHILIP J; *DICHROISM SPECTROSCOPY: VIBRATIONAL CIRCULAR DICHROISM (CHE-8011430 A01)*; 12 MONTHS $90,050

ESTLER, RON C; *LASER-INDUCED FLUORESCENCE STUDIES OF ALKALINE EARTH-HYDROGEN HALIDE REACTIONS (CHE-8012198 A01)*; 12 MONTHS $50,000

STEPHENSON, LEONARD M; *MECHANISMS OF HYDROCARBON FUNCTIONALIZATION REACTIONS AND METAL-CATALYZED DIENE OLIGOMERIZATION (CHE-8012233 A01)*; 12 MONTHS $75,000

FLOOD, THOMAS C; *STEREOCHEMISTRY AND MECHANISM IN ORGANOTRANSITION METAL CHEMISTRY (CHE-8016573 A01)*; 12 MONTHS $47,400

REED, C A; *SYNTHETIC COORDINATION CHEMISTRY (CHE-8026812)*; 12 MONTHS $50,500

BAU, ROBERT; *STRUCTURAL STUDIES ON METAL HYDRIDE CLUSTERS AND OTHER TRANSITION METAL COMPLEXES (CHE-8101122)*; 12 MONTHS $85,028

SEGAL, GERALD A; *THEORETICAL STUDIES ON THE ELECTRONIC STATES OF MOLECULES (CHE-8106016)*; 12 MONTHS $50,000

UNIVERSITY OF THE PACIFIC

WULFMAN, CARL E; *APPROXIMATE DYNAMICAL SYMMETRIES OF SMALL MOLECULES (CHE-8014165)*; 12 MONTHS $31,927

COLORADO

COLORADO STATE UNIVERSITY

MEYERS, ALBERT I; *ASYMMETRIC CARBON-CARBON BOND FORMING REACTIONS (CHE-7905580 A02)*; 12 MONTHS $53,337

BERNSTEIN, ELLIOT R; *PHOTOPHYSICS AND PHOTOCHEMISTRY OF MOLECULAR SPECIES IN CRYOGENIC LIQUIDS (CHE-7906938 A02)*; 12 MONTHS $48,000

HEGEDUS, LOUIS S; *PALLADIUM ASSISTED FUNCTIONALIZATION OF OLEFINS (CHE-7907832 A02)*; 12 MONTHS $29,000

NORTON, JACK R; *OGANOMETALLIC COMPLEXES: FUNDAMENTAL PROPERTIES AND REACTION MECHANISMS (CHE-7920373 A02)*; 12 MONTHS $81,900

STILLE, JOHN K; *HOMOGENEOUS PALLADIUM CATALYZED COUPLING REACTIONS (CHE-8003336 A01)*; 12 MONTHS $74,607

LADANYI, BRANKA M; *THEORY OF OPTICAL RESPONSE OF FLUIDS (CHE-8007472 A01)*; 12 MONTHS $35,000

HEGEDUS, LOUIS S; *MECHANISTIC PATHWAYS IN REACTIONS OF PI-PALLADIUM HALIDE AND PI-ALLYLNICKEL HALIDE COMPLEXES (CHE-8019573)*; 24 MONTHS $70,000

SKOGERBOE, RODNEY K; *PURCHASE OF SINGLE CRYSTAL X-RAY DIFFRACTOMETER AND STRUCTURE DETERMINATION PACKAGE (CHE-8103011)*; 12 MONTHS $91,000

UNIVERSITY OF COLORADO AT BOULDER

LINEBERGER, W CARL; *NEGATIVE ION SPECTROSCOPY (CHE-7818424 A02)*; 12 MONTHS $79,865

NORMAN, ARLAN D; *SYNTHESES AND PROPERTIES OF GROUP IVA ELEMENT PHOSPHORUS COMPOUNDS (CHE-7909497 A02)*; 12 MONTHS $44,900

DEPUY, CHARLES H, AND BIERBAUM, VERONICA M; *ORGANIC GAS PHASE ION-MOLECULE REACTIONS IN A FLOWING AFTERGLOW (CHE-7969750 A02)*; 12 MONTHS $52,000

LEONE, STEPHEN R; *LASER STATE SELECTED KINETICS (CHE-7911340 A01)*; 12 MONTHS $50,000

SIEVERS, ROBERT E; *NEW LANTHANIDE NMR SHIFT REAGENTS (CHE-7913022 A01)*; 12 MONTHS $43,563

SIEVERS, ROBERT E; *A CHEMILUMINESCENCE DETECTOR FOR GAS CHROMATOGRAPHY (CHE-7915801 A02)*; 12 MONTHS $39,989

WALBA, DAVID M; *THE SCOPE AND MECHANISM OF THE STEREOSPECIFIC OXIDATIVE CYCLIZATIONS PROMOTED BY HIGH VALENT OXO TRANSITION METAL SPECIES (CHE-8011391 A01)*; 12 MONTHS $25,600

REINHARDT, WILLIAM P; *THEORY OF MANY-BODY PROCESSES IN CHEMICAL PHYSICS (CHE-8011442 A01)*; 12 MONTHS $70,000

CRISTOL, STANLEY J; *THE NATURE OF INTERMEDIATES IN CHEMICAL AND PHOTOCHEMICAL PROCESSES (CHE-8011933)*; 12 MONTHS $68,200

GILL, STANLEY J; *CALORIMETRIC MEASUREMENT OF DISSOLUTION OF HYDROPHOBIC GASES INTO WATER (CHE-8018630)*; 12 MONTHS $44,144

GILL, STANLEY J; *CALORIMETRIC MEASUREMENT OF DISSOLUTION OF HYDROPHOBIC GASES INTO WATER (CHE-8018630 A01)*; $5,788

CHRISTIANSEN, LAWRENCE N; *AMERICAN CONFERENCE ON THEORETICAL CHEMISTRY; BOULDER, CO; JUNE 22-26, 1981 (CHE-8100184)*; 12 MONTHS $6,000

RAKOWSKI-DUBOIS, MARY C; *SYNTHETIC AND MECHANISTIC STUDIES OF METAL SULFUR COMPLEXES (CHE-8106790)*; 12 MONTHS $39,410

HYNES, JAMES T; *THEORETICAL STUDIES OF CHEMICAL REACTIONS IN LIQUIDS (CHE-8113240)*; 14 MONTHS $70,000

UNIVERSITY OF DENVER

LEYDEN, DONALD E; *INDUSTRY/UNIVERSITY COOPERATIVE PROGRAM FOR THE SYNTHESIS AND CHARACTERIZATION OF CHEMICALLY MODIFIED ADSORBENTS (CHE-7823123 A02*)*; 12 MONTHS $100

CONNECTICUT

WESLEYAN UNIVERSITY

KOHLER, BRYAN E; *MOLECULAR SPECTROSCOPY: HIGH RESOLUTION STUDIES OF SIMPLE POLYENES (CHE-7809444 A02)*; 12 MONTHS $40,000

FRY, ALBERT J; *SYNTHETIC APPLICATIONS OF ALKYL HALIDE ELECTROCHEMISTRY (CHE-7904907 A02)*; 12 MONTHS $40,862

JACOBI, PETER A; *A SYNTHETIC APPROACH TO THE HIGHLY OXYGENATED SESQUITERPENES (CHE-8108984)*; 12 MONTHS $43,409

YALE UNIVERSITY

WIBERG, KENNETH B; *PROPERTIES OF GEOMETRICALLY DISTORTED ORGANIC COMPOUNDS (CHE-7824880 A02)*; 12 MONTHS $86,000

CRABTREE, ROBERT H; *NEW AREAS IN CATALYSIS: METALLATION-RESISTANT LIGANDS; THE HYDROHALOGENATION OF OLEFINS (CHE-7825313 A02)*; 12 MONTHS $41,600

CROSS, R, AND SAUNDERS, MARTIN; *MOLECULAR-BEAM STUDIES OF ORGANIC REACTIONS (CHE-7826137 A02)*; 12 MONTHS $49,000

FALLER, J W; *REACTIONS AND STEREOCHEMISTRY OF ORGANOMETALLIC COMPOUNDS RELATED TO ASYMMETRIC SYNTHESES AND CATALYTIC ACTIVITY (CHE-7911201 A02)*; 12 MONTHS $70,275

SAUNDERS, MARTIN; *STABLE SOLUTIONS OF CARBONIUM IONS; ISOTOPIC PERTURBATION FOR DETERMINING MOLECULAR SYMMETRY (CHE-8000250 A01)*; 12 MONTHS $68,900

BERSON, JEROME A; *STRAINED RINGS, BIRADICALS, AND HIGHER SPIN ORGANIC MOLECULES (CHE-8011399 A01)*; 12 MONTHS $111,400

COLSON, STEVEN D, AND WIBERG, KENNETH B; *INFRARED SPECTRA OF ISOLATED MOLECULES AT LOW TEMPERATURES (CHE-8017304 A01)*; 17 MONTHS $50,600

ADAMS, RICHARD D; *SYSTEMATICS OF THE SYNTHESIS AND REACTIVITY OF HETERONUCLEAR CLUSTER COMPOUNDS (CHE-8019041)*; 12 MONTHS $42,500

COLSON, STEVEN D; *INDUSTRY/UNIVERSITY COOPERATIVE ACTIVITY: ELECTRONIC STRUCTURE AND MOLECULAR DYNAMICS THROUGH MULTIPHOTON LASER SPECTROSCOPY (CHE-8020618*)*; 12 MONTHS $14,814

CROTHERS, DONALD M; *PURCHASE OF A COMPUTER FOR CHEMICAL COMPUTATION (CHE-8023566)*; 12 MONTHS $110,000

KEYES, THOMAS F; *PROBLEMS IN STATISTICAL MECHANICS (CHE-8111422)*; 12 MONTHS $60,000

DELAWARE

UNIVERSITY OF DELAWARE

KWART, HAROLD; *TRANSITION STATE STRUCTURE IN ORGANIC OXIDATION AND REDUCTION PROCESSES THROUGH THE TEMPERATURE DEPENDENCE OF THE PRIMARY KINETIC ISOTOPE EFFECT (CHE-7911110 A01)*; 12 MONTHS $36,500

HECK, RICHARD F; *SUBSTITUTION REACTIONS BY ORGANOTRANSITION METAL COMPOUNDS AT UNSATURATED CARBON (CHE-8006319 A01)*; 12 MONTHS $57,800

WOOD, ROBERT H; *INTERACTIONS OF SALTS AND NONELECTROLYTES IN AQUEOUS SOLUTIONS (CHE-8009672 A01)*; 12 MONTHS $75,000

RECHNITZ, GARRY A; *BIOSELECTIVE MEMBRANE ELECTRODE (CHE-8025625)*; 12 MONTHS $65,412

RIDGE, DOUGLAS P; *CHEMICAL AND PHYSICAL INTERACTIONS OF METAL IONS WITH ORGANIC MOLECULES IN THE GAS PHASE (CHE-8110516)*; 7 MONTHS $54,810

DISTRICT OF COLUMBIA

GEORGETOWN UNIVERSITY

WEISS, RICHARD G; *ORDERED MEDIA AS MECHANISTIC TOOLS FOR INVESTIGATION OF THERMAL AND PHOTOCHEMICAL ORGANIC REACTIONS (CHE-7906572 A02)*; 12 MONTHS $41,000

MARTIRE, DANIEL E; *BASIC ANALYTICAL, THERMODYNAMIC AND THEORETICAL STUDIES INVOLVING GAS AND LIQUID CHROMATOGRAPHY (CHE-7913322 A01)*; 12 MONTHS $95,100

POPE, MICHAEL T; *STRUCTURES AND PROPERTIES OF MIXED METAL HETEROPOLY ANIONS (CHE-8019039)*; 12 MONTHS $40,000

HOWARD UNIVERSITY

HUDRLIK, PAUL F; *ORGANOSILICON COMPOUNDS IN STEREOSPECIFIC SYNTHESIS (CHE-7926181 A01)*; 12 MONTHS $68,978

NATIONAL ACADEMY OF SCIENCES

SPINDEL, WILLIAM; *PARTIAL TRAVEL SUPPORT OF U.S. PARTICIPATION IN THE XII INTERNATIONAL UNION OF CRYSTALLOGRAPHY CONGRESS OTTAWA, CANADA, AUGUST 16-25, 1981 (CHE-8020424)*; 18 MONTHS $4,000

FLORIDA

FLORIDA AGRICULTURAL AND MECHANICAL UNIVERSITY

JONES, HERBERT W; *INTERNATIONAL CONFERENCE ON MULTICENTER ETO MOLECULAR INTEGRALS; AUGUST 3-6, 1981; TALLAHASSEE, FLORIDA (CHE-8111070)*; 6 MONTHS $6,000

FLORIDA ATLANTIC UNIVERSITY

SCHULTZ, FRANKLIN A; *STRUCTURAL EFFECTS ON ELECTROCHEMICAL, SPECTROSCOPIC, AND CATALYTIC PROPERTIES OF TRANSITION METAL COMPLEXES (CHE-8020442)*; 12 MONTHS $67,980

SNYDER, PATRICIA A; *THE OPTICAL PROPERTIES OF FUNDAMENTAL CHROMOPHORES USING SYNCHROTRON RADIATION (CHE-8108534)*; 24 MONTHS $47,800

FLORIDA STATE UNIVERSITY

LEVY, GEORGE C; *MULTI-FIELD 13C RELAXATION AND COMPLEX DYNAMICS (CHE-7726473 A03)*; $14,925

HERZ, WERNER; *BIOGENETICALLY-PATTERNED CYCLIZATIONS AND REARRANGEMENTS OF TERPENOIDS (CHE-7801191 A03)*; 12 MONTHS $43,500

WALBORSKY, HARRY M; *ISOCYANIDES. SYNTHETIC EXPLORATIONS (CHE-7823810 A03)*; 12 MONTHS $26,933

WALBORSKY, HARRY M; *THE SYNTHESIS AND CHIROPTICAL PROPERTIES OF ACYCLIC CHIRAL, 1,3-DIENES AND ALPHA, BETA-UNSATURATED ALDEHYDES (CHE-8021072)*; 12 MONTHS $39,239

DETAR, DELOS F; *QUANTITATIVE CALCULATION OF STERIC EFFECTS (CHE-8022534)*; 12 MONTHS $81,600

SALTIEL, JACK; *MECHANISMS OF PHOTOCHEMICAL REACTIONS (CHE-8026701)*; 12 MONTHS $69,400

UNIVERSITY OF FLORIDA

MONKHORST, HENDRIK J; *MOMENTUM SPACE QUANTUM CHEMISTRY-AN ALTERNATIVE TO CONVENTIONAL METHODS (CHE-7906139 A02)*; 12 MONTHS $39,519

DUFTY, JAMES W, AND HOOPER, CHARLES; *STATIC AND DYNAMIC STRUCTURE OF SIMPLE FLUIDS (CHE-7920385 A02)*; 12 MONTHS $34,000

WELTNER, WILLIAM; *ESR AND OPTICAL SPECTROSCOPY OF IONS, CLUSTERS, AND HYDRIDES (CHE-7950000 A15)*; 12 MONTHS $44,000

JONES, WILLIAM M; *CYCLIC CONJUGATED CARBENES AND ALLENES: FREE AND COMPLEXED TO TRANSITION METALS (CHE-7950000 A16)*; 12 MONTHS $64,700

MICHA, DAVID A; *MANY-BODY COLLISION PROCESSES IN MOLECULAR SYSTEMS (CHE-8019510)*; 12 MONTHS $49,901

PERSON, WILLIS B; *UNDERSTANDING INFRARED INTENSITIES (CHE-8101131)*; 12 MONTHS $45,000

YOST, RICHARD A; *TRIPLE QUADRUPOLE MS/MS FOR DIRECT MIXTURE ANALYSIS (CHE-8106533)*; 12 MONTHS $131,954

OHRN, YNGVE; *THEORETICAL STUDIES OF LOCALIZED STATES IN POLYATOMIC SYSTEMS (CHE-8111564)*; 12 MONTHS $35,068

DOLBIER, WILLIAM R; *THERMAL CHEMISTRY OF FLUORINATED HYDROCARBONS (CHE-8111701)*; 10 MONTHS $57,000

VALA, MARTIN T; *EXCITED STATE SPECTROSCOPY IN THE IR REGION (CHE-8115891)*; 14 MONTHS $42,197

UNIVERSITY OF MIAMI

CRISS, CECIL M; *THERMODYNAMIC PROPERTIES OF NONAQUEOUS ELECTROLYTIC SOLUTIONS (CHE-7913154 A02)*; 12 MONTHS $47,500

GEORGIA

EMORY UNIVERSITY

PADWA, ALBERT; *INTRAMOLECULAR DIPOLAR CYCLOADDITION REACTIONS (CHE-7900919 A02)*; 12 MONTHS $53,000

MANDELL, LEON; *AN APPROACH TO THE QUASSINOIDS -- THE SYNTHESIS OF QUASSIN (CHE-7917570 A01)*; 12 MONTHS $35,500

PADWA, ALBERT, AND LIOTTA, DENNIS C; *WORKSHOPS ON REACTIVE INTERMEDIATES, SUMMERS OF 1981, 1982, AND 1983 (CHE-8022438)*; 36 MONTHS $38,400

MENGER, FREDRIC M; *THE GEOMETRY OF PROTON TRANSFER REACTIONS (CHE-8023353)*; 12 MONTHS $55,500

GEORGIA INSTITUTE OF TECHNOLGY MAIN CAMPUS

CAINE, DRURY S; *SYNTHETIC STUDIES ON SESQUITERPENOIDS (CHE-7810044 A02)*; 12 MONTHS $23,400

CAINE, DRURY S; *SYNTHETIC STUDIES ON SESQUITERPENOIDS (CHE-7810044 A03)*; $12,151

BURGESS, EDWARD M; *NEW FUNCTIONAL GROUPS AND HYPERVALENT MOLECULES (CHE-7900923 A02)*; 12 MONTHS $28,000

GOLE, JAMES L; *CHARACTERIZATION OF METAL AGGREGATES (CHE-7909075 A02)*; 12 MONTHS $39,000

BROWNER, RICHARD F; *SAMPLE PREPARATION AND INTRODUCTION FOR ANALYTICAL ATOMIC SPECTROSCOPY (CHE-8019947)*; 12 MONTHS $125,000

ASHBY, EUGENE C; *ORGANOMETALLIC REACTION MECHANISMS: THE IMPORTANCE OF SINGLE ELECTRON TRANSFER PATHWAYS (CHE-8101124)*; 12 MONTHS $85,800

UNIVERSITY OF GEORGIA

KING, R BRUCE; *PURCHASE OF NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8112565)*; 12 MONTHS $145,000

HAWAII

UNIVERSITY OF HAWAII-MANOA

LIU, ROBERT S; *NON-RADIATIVE PROCESSES IN ELECTRONICALLY EXCITED POLYENES (CHE-7912686 A01)*; 12 MONTHS $40,100

MOORE, RICHARD E; *NATURAL PRODUCTS FROM MARINE ORGANISMS (CHE-7925416 A01)*; 12 MONTHS $52,906

SCHEUER, PAUL J; *CHEMICAL COMMUNICATION OF MARINE INVERTEBRATES (CHE-8005780 A01)*; 12 MONTHS $65,371

FADLEY, CHARLES S; *SURFACE-CHEMICAL AND SOLID-STATE STUDIES USING ANGLERESOLVED PHOTOELECTRON SPECTROSCOPY, LOW ENERGY ELECTRON DIFFRACTION, AND ELECTRON ENERGY LOSS SPECTROSCOPY (CHE-8021355)*; 12 MONTHS $94,337

IHRIG, JUDSON L; *PURCHASE OF 300 MHZ FOURIER TRANSFORM SUPERCONDUCTIVE MAGNET NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8100240)*; 12 MONTHS $145,000

IDAHO

UNIVERSITY OF IDAHO

SHREEVE, JEAN'NE M; *SMALL SULFUR-NITROGEN RING SYSTEMS AND RELATED ACYCLIC COMPOUNDS (CHE-8100156)*; 12 MONTHS $73,300

ILLINOIS

ILLINOIS INSTITUTE OF TECHNOLOGY

BOWMAN, JOEL M; *THEORY OF MOLECULAR COLLISION DYNAMICS (CHE-7822106 A02)*; 12 MONTHS $29,877

LANGHOFF, C A; *PICOSECOND STUDIES OF CHEMICAL DYNAMICS IN SOLUTION (CHE-7908628 A01)*; 12 MONTHS $38,100

SHIRK, JAMES S; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ON INTRACAVITY LASER SPECTROSCOPY (CHE-7909380 A02*)*; 12 MONTHS $45,850

GUTMAN, DAVID; *DYNAMICS OF OXYGEN ATOM REACTIONS (CHE-8006573 A02)*; 12 MONTHS $65,500

HUDLICKY, TOMAS; *GENERAL METHODOLOGY FOR THE SYNTHESIS OF PERHYDROAZULENE TERPENOIDS (CHE-8102944)*; 12 MONTHS $41,027

NORTHWESTERN UNIVERSITY

SMITH, DONALD E; *FOURIER TRANSFORM ELECTROCHEMICAL RELAXATION METHODS: A STUDY OF THEORY, APPLICATIONS, AND INSTRUMENTATION (CHE-7715462 A04)*; $45,220

SMITH, DONALD E; *FOURIER TRANSFORM ELECTROCHEMICAL RELAXATION METHODS: A STUDY OF THEORY, APPLICATIONS, AND INSTRUMENTATION (CHE-7715462 A05)*; 12 MONTHS $90,000

SCHATZ, GEORGE C; *THEORETICAL STUDIES OF CHEMICAL REACTIONS AND COLLISIONAL ENERGY TRANSFER BETWEEN SMALL MOLECULES (CHE-7820336 A02)*; 12 MONTHS $40,000

VAN DUYNE, RICHARD P; *MOLECULAR CHARACTERIZATION OF THE ELECTRODE/SOLUTION INTERFACE BY RAMAN SPECTROSCOPIC TECHNIQUES (CHE-7824866 A02)*; 12 MONTHS $71,031

WEITZ, ERIC; *LASER INDUCED CHEMISTRY AND ENERGY TRANSFER IN SMALL MOLECULES (CHE-7908501 A02)*; 12 MONTHS $56,475

STAIR, PETER C; *SURFACE CHEMISTRY OF PARTIALLY OXIDIZED MOLYBDENUM SURFACES (CHE-7909268 A02)*; 12 MONTHS $47,000

SHRIVER, DUWARD F; *ACID ASSISTED REACTIONS OF COORDINATED CARBON MONOXIDE (CHE-7918010 A02)*; 12 MONTHS $57,049

BORDWELL, FREDERICK G; *EQUILIBRIA AND RATES IN DIPOLAR NONHYDROXYLIC SOLVENTS (CHE-8007844 A01)*; 12 MONTHS $77,000

MARKS, TOBIN J; *STOICHIOMETRIC AND CATALYTIC ORGANO-F-ELEMENT CHEMISTRY (CHE-8009060 A01)*; 12 MONTHS $79,085

IBERS, JAMES A; *STRUCTURES AND PROPERTIES OF TRANSITION-METAL COMPLEXES (CHE-8009671 A02)*; 12 MONTHS $115,000

BENDER, MYRON L; *MECHANISMS OF CATALYSIS OF ORGANIC REACTIONS (CHE-8012697 A01)*; 12 MONTHS $60,000

DEFORD, DONALD D; *PURCHASE OF SUPERCONDUCTING FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE SYSTEM (CHE-8015490)*; 12 MONTHS $131,000

RATNER, MARK A; *FORMAL AND NUMERICAL THEORETICAL STUDIES ON ELECTRON DELOCALIZATION AND INTRAMOLECULAR ELECTRON TRANSFER (CHE-8024120)*; 12 MONTHS $39,961

LAMBERT, JOSEPH B; *THE STRUCTURE OF ORGANIC REACTION INTERMEDIATES (CHE-8025601)*; 12 MONTHS $81,000

LEWIS, FREDERICK D; *PHOTOCHEMICAL REACTIONS IN SOLUTION AND THE GAS PHASE (CHE-8026020)*; 12 MONTHS $107,700

TROGLER, WILLIAM C; *PHOTOCHEMICAL REACTIONS OF ORGANOMETALLIC COMPLEXES (CHE-8105069)*; 12 MONTHS $42,500

ALLRED, A LOUIS; *PURCHASE OF MINICOMPUTER SYSTEM (CHE-8108990)*; 12 MONTHS $130,000

UNIVERSITY OF CHICAGO

HALPERN, JACK; *COORDINATION CHEMISTRY AND HOMOGENEOUS CATALYSIS (CHE-7801192 A03)*; 12 MONTHS $152,773

BURDETT, JEREMY K; *MATRIX ISOLATION AND COORDINATION CHEMISTRY (CHE-7820596 A02)*; 12 MONTHS $40,000

CLOSS, GERHARD L; *SHORT-LIVED ORGANIC REACTION INTERMEDIATES (CHE-7821789 A02)*; 12 MONTHS $110,700

LEVY, DONALD H; *SPECTROSCOPY IN SUPERSONIC MOLECULAR BEAMS (CHE-7825555 A02)*; 12 MONTHS $130,000

BERRY, R STEPHEN; *ATOMIC AND MOLECULAR PROCESSES (CHE-7901166 A02)*; $12,608

BERRY, R STEPHEN; *ATOMIC AND MOLECULAR PROCESSES (CHE-7901166 A03)*; 19 MONTHS $62,856

LIGHT, JOHN C; *THEORY OF GAS PHASE DYNAMICAL PROCESSES (CHE-7906896 A02)*; 12 MONTHS $70,222

GOMER, ROBERT; *ADSORPTION ON METALS (CHE-8007999 A01)*; 14 MONTHS $132,000

FLEMING, GRAHAM R; *INFLUENCE OF SOLVENT-SOLUTE INTERACTIONS ON MOLECULAR DYNAMICS (CHE-8009216 A01)*; 12 MONTHS $63,000

SMITH, JOSEPH V; *CRYSTAL STRUCTURES OF ZEOLITE MOLECULAR SIEVES AND CATALYSTS (CHE-8023444)*; 12 MONTHS $60,000

FREED, KARL F; *INDUSTRY/UNIVERSITY COOPERATIVE ACTIVITY: THEORETICAL STUDIES IN CHEMISTRY (CHE-8023456*)*; 12 MONTHS $80,093

FREED, KARL F; *THEORETICAL AND EXPERIMENTAL STUDIES OF INTRAMOLECULAR DYNAMICS (CHE-8024645)*; 12 MONTHS $173,000

OXTOBY, DAVID W; *THEORETICAL STUDIES OF COLLISION INDUCED SPECTROSCOPY AND CONDENSED PHASE RELAXATION (CHE-8106068)*; 12 MONTHS $42,000

KLEPPA, OLE J; *HIGH TEMPERATURE CALORIMETRY OF REFRACTORY SYSTEMS (CHE-8106980*)*; 12 MONTHS $54,000

STOUT, JOHN W; *MAGNETIC RESONANCE AND OPTICAL EMISSION OF F-ELECTRON IONS (CHE-8109035)*; 12 MONTHS $50,000

LIGHT, JOHN C; *PURCHASE OF CHEMISTRY DEPARTMENTAL COMPUTER EQUIPMENT (CHE-8112561)*; 12 MONTHS $60,000

OKA, TAKESHI; *INFRARED SPECTROSCOPY OF MOLECULAR IONS (PHY-8113097*)*; 12 MONTHS $120,000

EVANS, WILLIAM J; *SYNTHESIS AND CHEMICAL REACTIVITY OF COMPLEXES OF LANTHANIDE METALS WITH UNSATURATED ORGANIC SUBSTRATES (CHE-8116628)*; 12 MONTHS $49,000

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

ROCEK, JAN; *CHEMISTRY OF CHROMIUM (V). THREE- ELECTRON OXIDATIONS (CHE-7809445 A04)*; 12 MONTHS $54,900

YOUNG, PAUL R; *THE DRIVING FORCE FOR MECHANISMS OF NUCLEOPHILIC SUBSTITUTION AT TRICOORDINATE SULFUR (CHE-8000054 A01)*; 12 MONTHS $32,700

KEIDERLING, TIMOTHY A; *EXPERIMENTAL AND THEORETICAL STUDIES OF VIBRATIONAL CIRCULAR DICHROISM (CHE-8104997)*; 12 MONTHS $59,446

UNIVERSITY OF ILLINOIS AT URBANA

FLYGARE, WILLIS H; *HIGH RESOLUTION MICROWAVE SPECTROSCOPY (CHE-7850001 A49)*; 12 MONTHS $123,750

DYKSTRA, CLIFFORD E; *SELF-CONSISTENT ELECTRON PAIR THEORY (CHE-7950001 A21)*; 12 MONTHS $27,000

RAUCHFUSS, THOMAS B; *REACTIONS OF COORDINATED SULFUR LIGANDS (CHE-7950001 A22)*; 12 MONTHS $28,000

CHANDLER, DAVID; *THEORY OOF SOLVENT EFFECTS ON CHEMICAL EQUILIBRIA AND THE CONFORMATIONAL STRUCTURES OF SMALL CHAIN MOLECULES (CHE-7950001 A23)*; 12 MONTHS $50,000

LEONARD, NELSON J; *REARRANGEMENTS AND INTERACTIONS, ESPECIALLY OF NUCLEIC ACID BASES (CHE-7950001 A24)*; 12 MONTHS $86,000

SECREST, DONALD H; *GAS PHASE COLLISION PROCESSES (CHE-7950001 A25)*; 12 MONTHS $52,044

WOLYNES, PETER G; *NONEQUILIBRIUM STATISTICAL MECHANICS (CHE-7950001 A26)*; 12 MONTHS $50,000

GUTOWSKY, H S; *PURCHASE OF A MINICOMPUTER FOR COMPUTATIONAL STUDIES IN THEORETICAL CHEMISTRY (CHE-8019013)*; 12 MONTHS $82,500

SUSLICK, KENNETH S; *THE SONOCHEMISTRY OF TRANSITION METALS AND THEIR COMPLEXES (CHE-8020006)*; 12 MONTHS $46,500

BELFORD, R L; *NUCLEAR QUADRUPOLE COUPLING AND ANISOTROPIES IN EPR OF METAL IONS (CHE-8020443)*; 12 MONTHS $52,193

MCDONALD, J D; *VIBRATIONAL DYNAMICS (CHE-8020454)*; 12 MONTHS $193,000

SCHUSTER, GARY B; *THE CHEMISTRY OF HIGH ENERGY CONTENT REACTANTS (CHE-8024660)*; 12 MONTHS $78,300

BEAK, PETER A; *FACTORS AFFECTING CHEMICAL STRUCTURE AND STABILITY (CHE-8025236)*; 12 MONTHS $72,300

SHAPLEY, JOHN R; *ORGANOMETAL CLUSTER CHEMISTRY AND CATALYSIS (CHE-8100140)*; 12 MONTHS $109,700

ARDUENGO, ANTHONY J; *NEW AND UNUSUAL BONDING SYSTEMS (CHE-8104980)*; 12 MONTHS $78,100

PIRKLE, WILLIAM H; *STEREOSPECIFIC SOLVATION STUDIES (CHE-8105030)*; 12 MONTHS $118,800

FAULKNER, LARRY R; *ELECTRON TRANSFER IN SYSTEMS OF CONTROLLED ARCHITECTURE (CHE-8106026)*; 12 MONTHS $127,200

DRAGO, RUSSELL S; *QUANTITATIVE INVESTIGATIONS OF CHEMICAL REACTIVITY (CHE-8106058)*; 12 MONTHS $64,000

RAUCHFUSS, THOMAS B; *THE BINDING AND ACTIVATION OF SIMPLE CHALCOGENIDE LIGANDS BY TRANSITION METALS (CHE-8106787)*; 12 MONTHS $46,600

NIEMAN, TIMOTHY A; *INVESTIGATIONS IN ANALYTICAL CHEMILUMINESCENCE (CHE-8108816)*; 12 MONTHS $73,740

JONAS, JIRI; *EXPERIMENTAL STUDIES OF THE DYNAMIC STRUCTURE OF LIQUIDS (CHE-8111176)*; 12 MONTHS $88,800

COATES, ROBERT M; *TOTAL SYNTHESIS OF CERTAIN TERPENOID NATURAL PRODUCTS (CHE-8111843)*; 12 MONTHS $36,000

MARTIN, JAMES C; *REACTIVE INTERMEDIATES USEFUL IN SYNTHESIS (CHE-8113142)*; 12 MONTHS $85,400

SCHEELINE, ALEXANDER; *PROPERTIES OF FREE ELECTRONS IN ANALYTICALLY USEFUL ELECTRICAL DISCHARGES (CHE-8116702)*; 8 MONTHS $32,228

KLEMPERER, WALTER G; *SYNTHESIS, STRUCTURE, AND REACTIVITY OF GROUPS 5A AND 6A POLYOXOANIONS (CHE-8120721)*; 4 MONTHS $52,500

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

GAJEWSKI, JOSEPH J; *NEW CROSS-CONJUGATED BIRADICALS (CHE-7820710 A02)*; 12 MONTHS $55,500

KOCHI, JAY K; *OXIDATION-REDUCTION AND HOMOGENEOUS CATALYSIS OF ORGANIC COMPOUNDS BY METAL SPECIES (CHE-7908631 A02)*; 12 MONTHS $135,000

SHINER, VERNON J; *ISOTOPE EFFECTS AND NUCLEOPHILIC SUBSTITUTION, ELIMINATION AND REARRANGEMENT (CHE-7910015 A04)*; 12 MONTHS $58,600

EWING, GEORGE E; *SPECTROSCOPIC STUDIES AT LOW TEMPERATURES (CHE-7913166 A01)*; 12 MONTHS $69,475

HIEFTJE, GARY M; *DEVELOPMENT AND EVALUATION OF INSTRUMENTATION AND METHODS FOR MULTI-ELEMENT ANALYSIS (CHE-7918073 A01)*; 12 MONTHS $55,008

PARMENTER, CHARLES S; *ENERGY CONVERSION MECHANISMS IN POLYATOMIC VAPORS (CHE-7918077 A01)*; 12 MONTHS $80,350

BARTMESS, JOHN E; *GAS PHASE ORGANIC NEGATIVE ION-MOLECULE REACTIONS (CHE-7919528 A01)*; 12 MONTHS $34,000

BONHAM, RUSSELL A; *HIGH ENERGY ELECTRON IMPACT SPECTROSCOPY (CHE-8000253 A01)*; 12 MONTHS $65,000

CHISHOLM, MALCOLM H; *THE DEVELOPMENT OF DINUCLEAR AND POLYNUCLEAR/CLUSTER TRANSITION METAL CHEMISTRY (CHE-8001678 A01)*; 12 MONTHS $67,880

LANGHOFF, PETER W; *THEORETICAL STUDIES IN MOLECULAR IONIZATION SPECTROSCOPY (CHE-8002080 A01)*; 12 MONTHS $38,099

ORTOLEVA, PETER J; *INSTABILITY AND NONLINEAR PHENOMENA IN PHYSICO-CHEMICAL SYSTEMS (CHE-8002436 A01)*; 12 MONTHS $21,000

CAULTON, KENNETH G; *REDUCTIVE OLIGOMERIZATION OF CARBON MONOXIDE (CHE-8006331 A01)*; 12 MONTHS $76,541

HIEFTJE, GARY M; *CHARACTERIZATION AND OPTIMIZATION OF FLAME SPECTROMETRIC PROCESSES AND TECHNIQUES (CHE-8025633)*; 12 MONTHS $102,135

ALLERHAND, ADAM; *PURCHASE OF A HIGH FIELD NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8105004)*; 12 MONTHS $147,000

MAGNUS, PHILIP D; *APPLICATIONS OF ORGANOSILICON CHEMISTRY IN SYNTHESIS (CHE-8110674)*; 12 MONTHS $52,314

EWING, GEORGE E; *VIBRATIONAL ENERGY FLOW IN LIQUIDS AND VAN DER WAALS MOLECULES (CHE-8113095)*; 18 MONTHS $108,044

PURDUE UNIVERSITY

MARGERUM, DALE W, AND PARDUE, HARRY L; *STUDY AND APPLICATION OF ARRAY DETECTORS: CHEMISTRY OF CHLORAMINES: KINETIC METHODS OF ANALYSIS (CHE-7822456 A02)*; 12 MONTHS $62,610

FUCHS, PHILIP L; *TOTAL SYNTHESIS OF CYTOCHALASIN C (CHE-7903953 A03)*; 12 MONTHS $33,500

WALTON, RICHARD A; *LOW OXIDATION STATE TRANSITION METAL COMPLEXES CONTAINING METAL - METAL BONDS (CHE-7909233 A02)*; 12 MONTHS $50,000

GRUTZNER, JOHN B; *MECHANISMS OF CARBANION-INDUCED BOND BREAKING (CHE-7916831 A01)*; 12 MONTHS $46,000

BROWN, HERBERT C; *ORGANOBORANES - NEW CHEMISTRY AND MECHANISMS (CHE-7918881 A01)*; 12 MONTHS $92,000

MORRISON, HARRY A; *PHOTOCHEMICAL CONSEQUENCES OF INTERCHROMOPHORIC INTERACTIONS (CHE-7926499 A01)*; 12 MONTHS $51,800

KORNBLUM, NATHAN; *NEW REACTIONS BASED ON ELECTRON TRANSFER PROCESSES (CHE-8002118 A01)*; 12 MONTHS $37,800

FREISER, BEN S; *REACTIONS OF METAL IONS AND THEIR CLUSTERS IN THE GAS PHASE USING LASER IONIZATION - ION CYCLOTRON RESONANCE SPECTROSCOPY (CHE-8002685 A01)*; 12 MONTHS $40,000

JORGENSEN, WILLIAM L; *COMPUTER ASSISTED MECHANISTIC ANALYSIS OF ORGANIC REACTIONS (CHE-8007965 A01)*; 12 MONTHS $54,000

COOKS, ROBERT G; *MIXTURE ANALYSIS BY MASS SPECTROMETRY/MASS SPECTROMETRY. NEW METHODOLOGIES AND INSTRUMENTATION. (CHE-8011425 A01)*; 12 MONTHS $98,000

ADELMAN, STEVEN A; *CHEMISTRY IN CONDENSED PHASES (CHE-8018285)*; 8 MONTHS $17,334

ADELMAN, STEVEN A; *CHEMISTRY IN CONDENSED PHASES (CHE-8018285 A01)*; 12 MONTHS $54,000

JORGENSEN, WILLIAM L; *THEORETICAL STUDIES OF ORGANIC CHEMISTRY IN SOLUTION (CHE-8020466)*; 12 MONTHS $74,000

LYTLE, FRED E; *THE USE OF LASERS IN SPECTROSCOPIC METHODS OF ANALYSIS (CHE-8024635)*; 12 MONTHS $174,178

NEGISHI, EI-ICHI; *BIMETALLIC REAGENT SYSTEMS AND THEIR APPLICATION TO SELECTING ORGANIC SYNTHESIS (CHE-8104999)*; 12 MONTHS $53,675

UNIVERSITY OF NOTRE DAME

THOMAS, J KERRY; *PHOTOCHEMICAL REACTIONS IN AND THE STRUCTURE OF MICROEMULSIONS (CHE-7824867 A02)*; 12 MONTHS $51,800

FEHLNER, THOMAS P; *METAL-METAL INTERACTIONS IN CLUSTERS BY PHOTOELECTRON SPECTROSCOPY (CHE-7915220 A02)*; 12 MONTHS $36,000

FEHLNER, THOMAS P; *SYNTHESIS, STRUCTURE AND REACTIVITY OF CLUSTERS OF IRON AND BORON (CHE-8109503)*; 12 MONTHS $64,279

KOWALSKI, CONRAD J; *THE CHEMISTRY OF A-KETO DIANIONS (CHE-8111128)*; 12 MONTHS $45,057

IOWA

GRINNELL COLLEGE

ERICKSON, LUTHER E; *PURCHASE OF A GAS CHROMATOGRAPH-MASS SPECTROMETER (CHE-8111511*)*; 12 MONTHS $10,000

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

VERKADE, JOHN G; *CONSEQUENCES OF ORBITAL CONSTRAINTS IN ORGANOPHOSPHORUS COMPOUNDS ON LIGATION (CHE-7818937 A02)*; 12 MONTHS $53,986

RUSSELL, GLEN A; *CHEMISTRY OF RADICAL ANIONS AS REACTION INTERMEDIATES (CHE-7823866 A02)*; 12 MONTHS $42,800

MARTIN, DON S; *POLARIZED OPTICAL ABSORPTION SPECTROSCOPY OF COORDINATION COMPLEXES IN SINGLE CRYSTALS (CHE-8007442 A01)*; 13 MONTHS $44,000

BARTON, THOMAS J; *(P-P) PI-BONDED SILICON (CHE-8024678)*; 12 MONTHS $35,925

ANGELICI, ROBERT J; *TRANSITION METAL THIOCARBONYL COMPLEXES AND THEIR DERIVATIVES (CHE-8100419)*; 12 MONTHS $49,900

FRANKLIN, WILLIAM L; *SOCIAL ECOLOGY OF THE SOUTH AMERICAN GUANACO (INT-8105084*)*; 24 MONTHS $9,219

UNIVERSITY OF IOWA

TARDY, DWIGHT C, AND STWALLEY, WILLIAM C; *A SEARCH FOR NONSTATISTICAL BEHAVIOR IN MULTIPHOTON DISSOCIATION OF POLYATOMIC MOLECULES (CHE-7816702 A03)*; 12 MONTHS $49,900

GOFF, HAROLD; *PREPARATION OF HIGH OXIDATION STATE METALLOPORPHYRINS (CHE-7910305 A02)*; 12 MONTHS $37,761

SANDO, KENNETH M; *A THEORETICAL INVESTIGATION OF SPECTRAL LINE SHAPE (CHE-7912456 A02)*; 12 MONTHS $40,104

PIETRZYK, DONALD J; *THE CHROMATOGRAPHY OF AMINO ACIDS, PEPTIDES AND AMINO ACID DERIVATIVES (CHE-7913203 A01)*; 12 MONTHS $38,014

SCHEELINE, ALEXANDER; *PROPERTIES OF FREE ELECTRONS IN ANALYTICALLY USEFUL ELECTRICAL DISCHARGES (CHE-7919204 A01)*; 12 MONTHS $9,871

STWALLEY, WILLIAM C; *LONG-RANGE MOLECULES (CHE-8019033)*; 12 MONTHS $50,000

BURTON, DONALD J; *YLIDE-FLUOROOLEFIN CHEMISTRY (CHE-8021311)*; 12 MONTHS $74,010

COUCOUVANIS, DIMITRI N; *IRON TETRATHIOMETALLATE COMPLEXES AND NEW MOLYBDENUM SULFUR COMPLEXES (CHE-8109065)*; 18 MONTHS $167,838

DAVIS, LEODIS, AND STWALLEY, WILLIAM C; *PURCHASE OF A ND:YAG PUMPED PULSED DYE LASER SYSTEM (CHE-8112576)*; 12 MONTHS $80,000

KANSAS

KANSAS STATE UNIVERSITY

SETSER, DONALD W; *ENERGY DISPOSAL AND REQUIREMENTS IN CHEMICAL REACTIONS (CHE-7721380 A03)*; 12 MONTHS $80,000

KAY, KENNETH G; *THEORETICAL STUDIES OF INTRAMOLECULAR VIBRATIONAL ENERGY TRANSFER (CHE-7810020 A02)*; 12 MONTHS $38,000

MELOAN, CLIFTON E; *THE NATURE OF WATER AND ORGANIC SOLVENT ADDUCTS IN CHELATE EXTRACTIONS (CHE-7812440 A02)*; 12 MONTHS $44,246

HAWLEY, M; *ELECTRON-TRANSFER PROCESSES: AN ELECTROCHEMICAL STUDY OF HYPOVALENT RADICAL IONS (CHE-7813267 A02)*; 12 MONTHS $44,900

MCDONALD, RICHARD N; *CHEMISTRY OF HYPOVALENT RADICALS (CHE-7821770 A02)*; 12 MONTHS $54,200

KLABUNDE, KENNETH J; *ORGANOMETALLIC CHEMISTRY OF METAL VAPORS AND METAL SALT VAPORS (CHE-7919587 A02)*; 12 MONTHS $116,240

KLABUNDE, KENNETH J; *PURCHASE OF A MASS SPECTROMETER (CHE-8004120 A01)*; $6,700

BRESEE, RANDALL R; *DETERMINING EFFECTS OF CONSUMER USE ON FORENSIC MEASUREMENTS OF SINGLE POLYESTER FIBERS (CHE-8023431*)*; 18 MONTHS $59,403

FATELEY, WILLIAM G; *STUDIES IN FOURIER TRANSFORM INFRARED (FTIR) SPECTROSCOPY (CHE-8109570)*; 12 MONTHS $138,802

DESMARTEAU, DARRYL D; *SYNTHETIC AND MECHANISTIC STUDIES IN FLUORINE CHEMISTRY: I. CHEMISTRY OF VERY STRONG ELECTROPHILES: II. PERFLUOROALKANESULFONYL AMINES (CHE-8116043)*; 16 MONTHS $58,900

UNIVERSITY OF KANSAS MAIN CAMPUS

HARMONY, MARLIN D; *LASER-INDUCED MICROWAVE SPECTROSCOPY; A NEW TECHNIQUE FOR THE STUDY OF EXCITED ELECTRONIC STATES (CHE-8108395)*; 18 MONTHS $106,900

HARMONY, MARLIN D; *MICROWAVE SPECTROSCOPIC STUDIES OF MOLECULAR STRUCTURE (CHE-8116131)*; 16 MONTHS $53,000

WICHITA STATE UNIVERSITY

CORNELIUS, RICHARD D; *FACTORS AFFECTING METAL-CATALYZED PHOSPHATE HYDROLYSIS (CHE-8024043)*; 12 MONTHS $41,700

KENTUCKY

UNIVERSITY OF KENTUCKY

GUTHRIE, ROBERT D; *ELECTRON TRANSFER REACTIONS OF CARBANIONS AND RELATED SYSTEMS (CHE-7816419 A03)*; 12 MONTHS $40,000

TOLBERT, LAREN M; *PRIMARY PHOTOCHEMICAL PROCESSES IN CARBANIONS (CHE-8024644)*; 12 MONTHS $45,500

UNIVERSITY OF LOUISVILLE

GIBSON, DOROTHY H; *CYCLIC ORGANIC PEROXIDES (CHE-7926044 A01)*; 12 MONTHS $34,700

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

PRYOR, WILLIAM A; *FREE RADICAL REACTIONS IN SOLUTION (CHE-7921514 A01)*; 12 MONTHS $72,800

NEWKOME, GEORGE R; *CHEMISTRY OF BINUCLEAR COMPLEXES DERIVED FROM TWODIMENSIONAL MACROCYCLIC LIGANDS: STRUCTURAL ASPECTS AND CHEMISORPTION PROCESSES (CHE-8015354 A01)*; 12 MONTHS $73,500

TULANE UNIVERSITY

ENSLEY, HARRY E; *THE REACTION OF SINGLET OXYGEN WITH ALPHA, BETA-UNSATURATED CARBONYL COMPOUNDS (CHE-7921084 A01)*; 12 MONTHS $61,000

DARENSBOURG, MARCETTA Y; *PROTECTION AND/OR ACTIVATION OF TRANSITION METAL HYDRIDES BY INTERACTING LEWIS ACIDS AND CATIONS (CHE-7923204 A01)*; 12 MONTHS $49,885

DARENSBOURG, DONALD J; *THE LABILITY OF METAL-CARBON AND CARBON-OXYGEN BONDS IN ORGANOMETALLIC COMPOUNDS (CHE-8009233 A01)*; 12 MONTHS $60,000

MARYLAND

JOHNS HOPKINS UNIVERSITY

YARKONY, DAVID R; *THE ELECTRONIC STRUCTURE OF THE ALKALINE EARTH OXIDES (CHE-7824153 A02)*; 12 MONTHS $28,088

POSNER, GARY H; *ORGANIC SYNTHESIS USING OPTICALLY ACTIVE ALPHA, BETAETHYLENIC SULFOXIDES (CHE-7915161 A01)*; 12 MONTHS $48,673

DOERING, JOHN P; *HIGH RESOLUTION, LOW ENERGY ELECTRON IMPACT SPECTROSCOPY (CHE-7926051 A01)*; 12 MONTHS $50,000

DAGDIGIAN, PAUL J; *STUDIES OF STATE-TO-STATE COLLISION DYNAMICS AND MOLECULAR SPECTROSCOPY USING TUNABLE DYE LASERS (CHE-8025614)*; 12 MONTHS $97,844

DAGDIGIAN, PAUL J; *A COLLABORATIVE EXPERIMENTAL AND THEORETICAL STUDY OF ROTATIONALLY INELASTIC COLLISIONS (CHE-8108464)*; 12 MONTHS $63,701

JOHNS HOPKINS UNIVERSITY-SCHOOL OF MEDICINE

COTTER, ROBERT J; *MOLECULAR ION PRODUCTION BY LASER MASS SPECTROMETRY (CHE-8016440)*; 12 MONTHS $191,935

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

MAZZOCCHI, PAUL H; *PHOTOCHEMICAL ADDITIONS OF ALKENES TO IMIDES (CHE-7823808 A02)*; 12 MONTHS $41,800

UNIVERSITY OF MARYLAND, COLLEGE PARK

COPLAN, MICHAEL A, AND TOSSELL, JOHN A; *ELECTRONIC STRUCTURE AND MOMENTUM DISTRIBUTIONS FROM ELECTRON IMPACT IONIZATION (CHE-7909430 A02)*; $10,000

COPLAN, MICHAEL A, AND TOSSELL, JOHN A; *ELECTRONIC STRUCTURE AND MOMENTUM DISTRIBUTIONS FROM ELECTRON IMPACT IONIZATION (CHE-7909430 A03)*; 12 MONTHS $60,000

STEWART, JAMES M, AND MUNN, ROBERT J; *THE DEVELOPMENT OF A GENERALIZED TRANSPORTABLE SOFTWARE PACKAGE FOR THE SOLUTION AND REFINEMENT OF MOLECULAR STRUCTURES BY SINGLE CRYSTAL DIFFRACTION TECHNIQUES (CHE-7920201 A01*)*; 12 MONTHS $38,964

MARIANO, PATRICK S; *IMINIUM SALT PHOTOCHEMISTRY (CHE-8009813 A01)*; 12 MONTHS $61,300

ZWANZIG, ROBERT, AND DORFMAN, J ROBERT; *RESEARCH IN STATISTICAL PHYSICS (CHE-8015976 A01)*; 12 MONTHS $112,000

MCNESBY, JAMES R; *PURCHASE OF A 200 MHZ NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8026025)*; 12 MONTHS $86,100

GREER, SANDRA C; *EXPERIMENTAL INVESTIGATIONS AT FLUID CRITICAL POINTS (CHE-8111962)*; 12 MONTHS $35,489

MASSACHUSETTS

BOSTON COLLEGE

LIN, JEONG-LON; *ON THE SORET EFFECT IN IONIC SOLUTIONS (CHE-8111781)*; 12 MONTHS $42,500

BOSTON UNIVERSITY

DILL, DAN; *CALCULATIONAL EXPLORATION OF CROSS SECTIONS FOR ELECTRON SCATTERING BY AND PHOTOIONIZATION OF COMPLEX MOLECULES AND CHEMISORBED SPECIES (CHE-7808707 A02)*; 12 MONTHS $45,000

HOFFMAN, MORTON Z; *PHOTO AND RADIATION CHEMISTRY OF COORDINATION COMPLEXES (CHE-7918013 A01)*; 12 MONTHS $63,500

BRANDEIS UNIVERSITY

ROSENBLUM, MYRON; *PREPARATION AND SYNTHETIC APPLICATION OF NEW TRANSITION METAL COMPLEXES (CHE-7816863 A03)*; 12 MONTHS $54,220

KEEHN, PHILIP; *THE DEVELOPMENT OF THE UTILITY OF INFRARED LASER CHEMISTRY (CHE-7826310 A02*)*; 12 MONTHS $91,692

EPSTEIN, IRVING R, AND KUSTIN, KENNETH; *OSCILLATING CHEMICAL REACTIONS (CHE-7905911 A02)*; 12 MONTHS $52,200

KEEHN, PHILIP; *SYNTHESIS AND SYNTHETIC METHODS: IONIC CYCLOPHANES, PARALLEL AND PERPENDICULAR DIENES, UNSYMMETRICAL OLEFIN CLEAVAGE (CHE-7910295 A02)*; 12 MONTHS $43,615

HENDRICKSON, JAMES B; *COMPUTERIZATION OF A NEW PROTOCOL FOR SYSTEMATIC SYNTHESIS DESIGN (CHE-8102972)*; 12 MONTHS $102,814

CHAN, I Y; *SPECTROSCOPY AND LATTICE DYNAMICS OF CARBONYLS (CHE-8113452)*; 12 MONTHS $48,484

CLARK UNIVERSITY

JONES, ALAN A; *ACQUISITION OF A SUPERCONDUCTING NUCLEAR MAGNETIC RESONANCE SPECTROMETER (DMR-8108697*)*; 18 MONTHS $20,000

HARVARD UNIVERSITY

LIPSCOMB, WILLIAM N; *ELECTRONIC AND GEOMETRICAL STRUCTURES OF MOLECULES (CHE-7719899 A03)*; 12 MONTHS $60,000

WESTHEIMER, FRANK H; *THE CHEMISTRY OF PHOSPHATE ESTERS AND RELATED COMPOUNDS (CHE-7720045 A01)*; 12 MONTHS $55,900

KISHI, YOSHITO; *SYNTHETIC STUDIES IN THE FIELD OF NATURAL PRODUCTS CHEMISTRY (CHE-7806296 A03)*; 12 MONTHS $110,118

WENDER, PAUL A; *APPROACHES TO IMPROVED SYNTHESIS DESIGN: MECHANISTIC AND SYNTHETIC STUDIES ON NEW ANNELATION METHODS (CHE-7821463 A02)*; 12 MONTHS $22,374

WESTHEIMER, FRANK H; *STUDIES IN SYNTHETIC ORGANIC CHEMISTRY (CHE-7825699 A02)*; $15,418

WILSON, E; *MOLECULAR STRUCTURE AND MOLECULAR COLLISIONS OF EXCITED ELECTRONIC STATES OF MOLECULES (CHE-7906905 A03)*; 12 MONTHS $211,109

COREY, ELIAS J; *ORGANIC CHEMISTRY: MULTISTEP SYNTHESIS, NEW SYNTHETIC METHODOLOGY, EXPLORATORY CHEMISTRY (CHE-7912662 A01)*; 12 MONTHS $205,000

KARPLUS, MARTIN; *PROBLEMS IN THEORETICAL CHEMISTRY: ELECTRONIC STRUCTURE AND DYNAMICS OF MOLECULES IN VACUUM AND IN SOLUTION (CHE-7920433 A01*)*; 12 MONTHS $94,000

WILSON, E; *STUDIES IN HYDROGEN BONDING, MOLECULAR STRUCTURE AND ROTATIONAL RELAXATION (CHE-8011956 A01)*; 12 MONTHS $70,500

GORDON, ROY G; *INTERMOLECULAR FORCES AND MOLECULAR MOTION (CHE-8015804 A01)*; 12 MONTHS $82,848

COOPER, N JOHN; *THE TRANSITION METAL TO CARBON DOUBLE BOND: SYNTHESIS OF ALKYLIDENE COMPLEXES (CHE-8016162 A01)*; 12 MONTHS $57,416

VAIDA, VERONICA; *DYNAMICS OF ELECTRONICALLY EXCITED STATES (CHE-8018318)*; 12 MONTHS $83,410

DOERING, WILLIAM V; *MECHANISMS OF THERMAL REARRANGEMENTS (CHE-8019427)*; 12 MONTHS $111,600

CIAPPENELLI, DONALD J; *PURCHASE OF 200 MHZ NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8023746)*; 12 MONTHS $81,400

HOLM, RICHARD H; *PROBLEMS IN BIOLOGICALLY RELATED INORGANIC CHEMISTRY (CHE-8106017)*; 12 MONTHS $151,959

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

TANAKA, TOYOICHI; *PHASE SEPARATION OF PROTEIN/SALT-WATER MIXTURES (CHE-7726926 A03)*; 12 MONTHS $27,000

FIELD, ROBERT W; *EXTENSION OF SPECTROSCOPY LABORATORY TUNABLE LASER FACILITY (CHE-7810178 A03)*; 4 MONTHS $7,442

PRITCHARD, DAVID E; *STATE TO STATE DIFFERENTIAL CROSS SECTIONS (CHE-7902967 A02)*; 12 MONTHS $60,000

FIELD, ROBERT W; *ENERGY PARTITIONING AND FLOW IN METAL-OXIDANT FLAMES (CHE-7950007 A22)*; 12 MONTHS $57,000

SCHROCK, RICHARD R; *MULTIPLE METAL-CARBON BONDS, METALLOCYCLES AND CATALYTIC REACTIONS INVOLVING OLEFINS (CHE-7950007 A23)*; 12 MONTHS $160,900

RASTETTER, WILLIAM H; *NUCLEOPHILIC DISPLACEMENTS AT SULFUR. SYNTHESIS OF FUNGAL METABOLITES (CHE-7950007 A24)*; 12 MONTHS $61,448

KINSEY, JAMES L; *PURCHASE OF 200 MHZ NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8019562)*; 12 MONTHS $116,000

GREENE, FREDERICK D; *MECHANISMS OF ELECTROPHILIC ADDITION REACTIONS OF OLEFINS (CHE-8022783)*; 12 MONTHS $73,500

WRIGHTON, MARK S; *PRIMARY EXCITED STATE PROCESSES IN TRANSITION METAL ORGANOMETALLIC COMPLEXES (CHE-8024853)*; 12 MONTHS $95,900

WRIGHTON, MARK S; *EXPERIMENTS IN M.I.T. TUNABLE LASER FACILITY (CHE-8024853 A01*)*; $16,215

SILBEY, ROBERT J; *QUANTUM MECHANICAL STUDIES OF THE COUPLING BETWEEN ELECTRONIC AND VIBRATIONAL STATES (CHE-8100407)*; 12 MONTHS $72,615

CHEN, SOW-HSIN, AND YIP, SIDNEY; *DYNAMICAL STRUCTURE OF DENSE FLUIDS IN TWO AND THREE DIMENSIONS (CHE-8103071)*; 12 MONTHS $75,000

MASAMUNE, SATORU; *CHEMISTRY OF THEORETICALLY SIGNIFICANT ORGANIC SPECIES AND ORGANIC SYNTHESIS (CHE-8104979)*; 12 MONTHS $98,241

GARLAND, CARL W; *ULTRASONIC MEASUREMENTS NEAR TRANSITION AND CRITICAL POINTS (CHE-8105071)*; 12 MONTHS $87,000

SEYFERTH, DIETMAR; *MIXED MAIN GROUP/TRANSITION METAL CLUSTERS: THEIR SYNTHESIS AND REACTIONS (CHE-8106769)*; 12 MONTHS $56,500

ROUSH, WILLIAM R; *INTRAMOLECULAR DIELS-ALDER REACTIONS: CATALYSIS AND ASYMMETRIC SYNTHESIS (CHE-8106987)*; 12 MONTHS $36,589

WILLIAMS, JOHN E; *CONSTRUCTION OF A 200 MHZ NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8108374*)*; 6 MONTHS $71,108

SOLOMON, EDWARD I; *SPECTROSCOPIC STUDIES OF ELECTRONIC STRUCTURE ANALOGUES OF METALLOPROTEIN ACTIVE SITES (CHE-8108817*)*; 6 MONTHS $46,250

KINSEY, JAMES L; *STUDIES OF MOLECULAR COLLISIONS (CHE-8109163)*; 12 MONTHS $129,802

STEINFELD, JEFFREY I; *COHERENT TRANSIENT AND DOUBLE RESONANCE SPECTROSCOPY IN THE INFRARED & OPTICAL REGIONS (CHE-8109963)*; 12 MONTHS $65,000

WHITESIDES, GEORGE M; *ORGANOMETALLIC CHEMISTRY AND CATALYSIS (CHE-8110691)*; 12 MONTHS $160,900

OPPENHEIM, IRWIN; *TRANSPORT AND RELAXATION PROCESSES (CHE-8110718)*; 12 MONTHS $89,000

DANHEISER, RICK L; *ALLENE DERIVATIVES IN NATURAL PRODUCTS SYNTHESIS (CHE-8111179)*; 12 MONTHS $33,546

WAUGH, JOHN S; *NEW EXPERIMENTAL METHODS IN NMR (CHE-8111180)*; 12 MONTHS $139,450

SHARPLESS, K; *OXIDATIONS OF HYDROCARBONS CATALYZED BY INORGANIC OXO AND PEROXO COMPOUNDS AND RELATED SPECIES (CHE-8111562)*; 12 MONTHS $132,900

LORD, RICHARD C; *BIOPHYSICAL APPLICATIONS OF RAMAN SPECTROSCOPY (CHE-8113662)*; 12 MONTHS $39,900

NORTHEASTERN UNIVERSITY

KARGER, BARRY L; *STUDIES IN LIQUID AND GAS CHROMATOGRAPHY (CHE-7918536 A01)*; 12 MONTHS $86,559

UNIVERSITY OF MASSACHUSETTS, AMHERST

HOLMES, ROBERT R; *LIGAND EXCHANGE MECHANISMS FOR NONRIGID MOLECULES OF MAIN GROUP ELEMENTS (CHE-7910036 A02)*; 12 MONTHS $35,000

CARPINO, LOUIS A; *SYNTHETIC UTILITY OF LOW TEMPERATURE RETRO DIELS-ALDER REACTIONS (CHE-7923622 A01)*; 12 MONTHS $32,000

RAUSCH, MARVIN D; *ORGANIC DERIVATIVES OF THE EARLY TRANSITION METALS (CHE-8018210)*; 12 MONTHS $45,000

STENGLE, THOMAS R; *NUCLEAR MAGNETIC RESONANCE STUDIES OF XENON IN LIQUID SOLVENTS AND BIOLOGICAL SYSTEMS (CHE-8103004)*; 12 MONTHS $33,150

RAGLE, JOHN L; *DOUBLE RESONANCE NMR STUDIES OF ENTRAPPED-MOLECULES IN CLATHRATES AND ISOLATION MATRICES (CHE-8111431)*; 12 MONTHS $36,450

MICHIGAN

HOPE COLLEGE

DOYLE, MICHAEL P; *FORMATION AND REACTIONS OF DINITROGEN COMPOUNDS (CHE-7824086 A02)*; 12 MONTHS $45,900

WILLIAMS, DONALD H; *PURCHASE OF A GAS CHROMATOGRAPH/MASS SPECTROMETER SYSTEM (CHE-8106056*)*; 12 MONTHS $43,000

MICHIGAN STATE UNIVERSITY

CHANG, CHI K; *THE CHEMISTRY AND STRUCTURES OF STACKED MACROCYCLIC LIGANDS AND METAL COMPLEXES (CHE-7815285 A02)*; 12 MONTHS $36,500

WAGNER, PETER J; *KETONES AS PROBES OF PHOTOCHEMICAL PROCESSES IN SOLUTION (CHE-7910831 A02)*; 10 MONTHS $58,000

SCHWENDEMAN, RICHARD H; *SPECTROSCOPIC STUDIES OF MOLECULAR STRUCTURE, ENERGETICS, AND DYNAMICS (CHE-7921319 A01)*; 12 MONTHS $79,995

CROUCH, STANLEY R; *FAST KINETIC STUDIES OF ANALYTICAL SYSTEMS (CHE-7926490 A01)*; 12 MONTHS $58,037

PINNAVAIA, THOMAS J, AND MORTLAND, MAX M; *LAYERED SILICATE INTERCALATION CATALYSTS (CHE-8002413 A01)*; 12 MONTHS $77,100

SCHWENDEMAN, RICHARD H; *STUDIES OF MOLECULAR STRUCTURE AND ENERGY TRANSFER BY MICROWAVE AND INFRARED LASER SPECTROSCOPY (CHE-8017534 A01)*; 12 MONTHS $75,000

HART, HAROLD; *STUDIES IN SYNTHETIC AND MECHANISTIC CHEMISTRY (CHE-8017746)*; 12 MONTHS $64,279

AVERILL, BRUCE A; *SYNTHETIC MODELS FOR THE PROSTHETIC GROUPS OF METALLOPROTEINS (CHE-8023222)*; 12 MONTHS $40,000

ALLISON, JOHN; *ORGANOMETALLIC ION-MOLECULE REACTIONS (CHE-8023704)*; 12 MONTHS $65,300

UNIVERSITY OF MICHIGAN-ANN ARBOR

SACKS, RICHARD D; *ELECTRICALLY VAPORIZED THIN METALLIC FILMS AS ATOMIZATION CELLS AND EXCITATION SOURCES FOR ANALYTICAL ATOMIC SPECTROSCOPY (CHE-7825542 A02)*; 14 MONTHS $65,177

CURTIS, M DAVID; *SMALL - RING METALLACYCLES AND METAL-METAL MULTIPLE BONDS (CHE-7907748 A02)*; 12 MONTHS $45,500

MORRIS, MICHAEL D; *AC-COUPLED INVERSE RAMAN SPECTROSCOPY (CHE-7915185 A02)*; 12 MONTHS $58,000

PHILLIES, GEORGE D; *DIFFUSION OF MACROMOLECULES UNDER NON-CLASSICAL CONDITIONS (CHE-7920389 A01*)*; 12 MONTHS $15,500

BARTELL, LAWRENCE S; *MOLECULAR STRUCTURE AND FORCE FIELDS: ELECTRON DIFFRACTION STUDIES OF GASEOUS MOLECULES (CHE-7926480 A01)*; 12 MONTHS $103,000

TAYLOR, ROBERT C; *CLUSTER CHEMISTRY (CHE-7927146 A01)*; 12 MONTHS $55,302

KUCZKOWSKI, ROBERT L; *CHEMICAL APPLICATIONS OF MICROWAVE SPECTROSCOPY (CHE-8005471 A01)*; 12 MONTHS $76,000

WUTS, PETER G; *FUNCTIONALIZED ALLYLBORANES IN THE SYNTHESIS OF NATURAL PRODUCTS (CHE-8019770)*; 12 MONTHS $23,082

GROVES, JOHN T; *METAL-OXO AND METAL-PEROXO INTERMEDIATES IN OXIDATIVE CATALYSIS (CHE-8106064)*; 12 MONTHS $64,700

WAYNE STATE UNIVERSITY

MC CLAIN, WILLIAM M; *NONLINEAR TRANSMISSION SPECTROSCOPY OF MOLECULAR GASES (CHE-7805681 A03)*; $6,665

BRENNER, ALAN; *AN INFRARED SPECTROSCOPIC STUDY OF ADSORBED TRANSITION METAL COMPLEXES (CHE-8005400 A01)*; 12 MONTHS $52,000

ENDICOTT, JOHN F; *THE PHOTOCHEMISTRY OF COORDINATION COMPLEXES (CHE-8005497 A01)*; 12 MONTHS $65,000

BACH, ROBERT D; *EXPERIMENTAL AND THEORETICAL STUDIES OF CARBONYL MIGRATIONS AND OTHER REACTION MECHANISMS (CHE-8006520 A01)*; 11 MONTHS $60,000

JOHNSON, CARL R; *SYNTHETIC CHEMISTRY BASED ON SULFOXIMINES AND THIOPHOSPHONATES (CHE-8009140 A01)*; 12 MONTHS $71,900

GLICK, MILTON D, AND LINTVEDT, RICHARD L; *SYNTHESIS, STRUCTURE, MAGNETISM AND REACTIVITY OF MULTI-NUCLEAR TRANSITION METAL COMPLEXES (CHE-8010809 A01)*; 12 MONTHS $55,000

COLEMAN, DAVID M; *SPECTROSCOPIC STUDIES OF SEGREGATED SAMPLING/EXCITATION LUMINOUS ANALYTICAL DISCHARGES (CHE-8016148)*; 12 MONTHS $77,054

OLIVER, JOHN P; *ORGANOSYLMETALLIC COMPOUNDS: STRUCTURAL, SPECTROSCOPIC AND CHEMICAL STUDIES INCLUDING THEIR POTENTIAL USE OF SILYLENE (CHE-8016862 A01)*; 12 MONTHS $60,100

ENDICOTT, JOHN F, AND RORABACHER, DAVID B; *CONFERENCE ON MECHANISTIC INORGANIC CHEMISTRY, TO BE HELD AT WAYNE STATE UNIVERSITY, JUNE 10-12, 1981 (CHE-8103328)*; 12 MONTHS $6,000

HASE, WILLIAM L; *COMPUTER SIMULATION OF CHEMICAL DYNAMICS (CHE-8109265)*; 12 MONTHS $50,900

MINNESOTA

UNIVERSITY OF MINNESOTA

GASSMAN, PAUL G; *THE CHEMISTRY OF BENT BONDS (CHE-7810231 A02)*; 12 MONTHS $79,992

OVEREND, JOHN; *THE CONTRIBUTIONS OF FF NONBONDED INTERACTIONS TO VIBRATIONAL ANHARMONICITY IN SF_6, CF_4 AND RELATED MOLECULES (CHE-7810742 A02)*; 12 MONTHS $30,700

PIGNOLET, LOUIS H; *CATALYTIC THERMAL AND PHOTOCHEMICAL DECARBONYLATION REACTIONS AND THE REDOX PHOTOCHEMISTRY OF METAL-SULFUR COMPLEXES (CHE-7821840 A02)*; 12 MONTHS $43,000

MILLER, LARRY L; *PREPARATIVE ORGANIC PLASMA CHEMISTRY (CHE-7827066 A02*)*; 12 MONTHS $58,006

GENTRY, WILLIAM R; *CHEMICAL DYNAMICS OF BIMOLECULAR REACTIVE COLLISIONS (CHE-7906917 A02)*; 12 MONTHS $48,000

MILLER, LARRY L; *ORGANIC ELECTROCHEMISTRY (CHE-7906941 A02)*; 12 MONTHS $57,000

GENTRY, WILLIAM R, AND GIESE, CLAYTON F; *QUANTUM DYNAMICS OF MOLECULAR INTERACTIONS (CHE-7908346 A02)*; 12 MONTHS $80,000

ELLIS, JOHN E; *THE SYNTHESIS AND CHEMISTRY OF ORGANOMETALLIC ANIONS (CHE-7912159 A02)*; 12 MONTHS $53,000

KREEVOY, MAURICE M; *THE EFFECT OF MEDIUM AND STRUCTURE ON PROTON AND HYDRIDE TRANSFER (CHE-7925990 A01)*; 12 MONTHS $53,700

MEAD, C ALDEN; *THE MOLECULAR AHARONOV-BOHM EFFECT AND ITS ROLE IN QUANTUM CHEMISTRY (CHE-8008335 A01)*; 12 MONTHS $50,000

MOSCOWITZ, ALBERT J; *MAGNETIC CIRCULAR DICHROISM OF FORBIDDEN TRANSITIONS IN ORGANIC MOLECULES (CHE-8009240 A01)*; 12 MONTHS $76,762

OVEREND, JOHN; *AMINO ACID AND PEPTIDE ANALYZER INSTRUMENTATION (PCM-8019321*)*; 12 MONTHS $15,000

TRUHLAR, DONALD G; *SCATTERING THEORY AND CALCULATIONS FOR CHEMICAL REACTIONS AND ELECTRON IMPACT PROCESSES (CHE-8025232)*; 12 MONTHS $65,000

GLADFELTER, WAYNE L; *SYNTHESIS AND REACTIVITY OF NITROSYL CARBONYL CLUSTERS (CHE-8106096)*; 12 MONTHS $38,800

UNIVERSITY OF MINNESOTA AT SAINT PAUL

DIXON, DAVID A; *DYNAMICS OF CHEMICAL REACTIONS (CHE-7905985 A02)*; 12 MONTHS $40,000

DAHLER, JOHN S; *THEORY OF HIGH-ENERGY ION-ATOM AND ATOM-ATOM COLLISIONS (CHE-7914174 A01)*; 12 MONTHS $43,809

DAHLER, JOHN S; *KINETIC THEORY OF POLYATOMIC AND CHEMICALLY REACTIVE FLUIDS (CHE-8017786)*; 18 MONTHS $76,836

MISSISSIPPI

UNIVERSITY OF MISSISSIPPI

PARCHER, JON F; *APPLICATIONS OF FRONTAL CHROMATOGRAPHY TO MULTICOMPONENT SYSTEMS (CHE-7809918 A02)*; 12 MONTHS $43,580

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

BRUGGER, ROBERT M; *PURCHASE OF PROMPT GAMMA-RAY ACTIVATION ANALYSIS EQUIPMENT (CHE-8026528)*; 12 MONTHS $27,000

SCHLEMPER, ELMER O; *SHORT HYDROGEN BONDS: NEUTRON, GAMMA AND X-RAY; OTHER EXPERIMENTAL STUDIES; AND THEORETICAL CORRELATIONS (CHE-8106795)*; 12 MONTHS $35,000

WONG, TUCK C; *A NUCLEAR MAGNETIC RESONANCE INVESTIGATION OF THE DYNAMICS AND ORDERING OF WATER IN CELLULOSE (CHE-8115227)*; 12 MONTHS $38,000

UNIVERSITY OF MISSOURI, ROLLA

BERTRAND, GARY L; *DEVELOPMENT OF A GROUP-CONTRIBUTION METHOD FOR PREDICTING SOLUBILITIES IN COMPLEX SYSTEMS (CHE-7921534 A01)*; 12 MONTHS $27,300

WASHINGTON UNIVERSITY

WAHL, ARTHUR C; *OXIDATION-REDUCTION REACTIONS (CHE-8003225 A01)*; 12 MONTHS $60,000

GASPAR, PETER P; *MECHANISMS OF CHEMICAL REACTIONS OF CARBENES (CHE-8019638)*; 12 MONTHS $59,400

PHILLIPS, WILLIAM D; *PURCHASE OF A RESEARCH 200 MHZ NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8100211*)*; 12 MONTHS $125,000

MONTANA

MONTANA STATE UNIVERSITY

GRIMSRUD, ERIC P; *A DETAILED STUDY OF THE QUANTITATIVE RESPONSE OF THE ELECTRON CAPTURE DETECTOR (CHE-7824515 A03)*; 12 MONTHS $45,491

UNIVERSITY OF MONTANA

FIELD, RICHARD J; *OSCILLATING CHEMICAL REACTIONS (CHE-8023755)*; 12 MONTHS $60,500

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

RIEKE, REUBEN D; *ELECTROCHEMISTRY OF ORGANOMETALLIC COMPLEXES AND HIGHLY CONDUCTING ORGANIC MATERIALS (CHE-7806661 A04)*; 12 MONTHS $80,000

BURROW, PAUL D; *ELECTRON SCATTERING STUDIES OF TEMPORARY ANION FORMATION IN HYDROCARBONS (CHE-7916816 A01)*; 12 MONTHS $50,000

GEORGE, T ADRIAN; *CHEMISTRY OF COORDINATED DINITROGEN (CHE-8011423 A01)*; 12 MONTHS $52,524

WILKINS, CHARLES L, AND GROSS, MICHAEL L; *FOURIER TRANSFORM MASS SPECTROMETRY (CHE-8018245)*; 12 MONTHS $82,236

MEISELS, GERHARD G; *PURCHASE OF A 250 MHZ NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8024328)*; 12 MONTHS $143,000

STALEY, STUART W; *CARBANION CHEMISTRY (CHE-8110428)*; 6 MONTHS $48,200

NEVADA

UNIVERSITY OF NEVADA, RENO

LIGHTNER, DAVID A; *PHOTOCHEMISTRY OF BILIRUBIN, PORPHYRINS AND RELATED PYRROLES (CHE-7910133 A02)*; 12 MONTHS $60,000

SCOTT, LAWRENCE T; *UNDERSTANDING CYCLIC CONJUGATION (CHE-7910299 A02)*; 12 MONTHS $31,763

NEW HAMPSHIRE

DARTMOUTH COLLEGE

LEMAL, DAVID M; *SYNTHESIS AND CHEMISTRY OF PERFLUORINATED ANNULENES AND THEIR RELATIVES (CHE-7924309 A01)*; 12 MONTHS $63,211

HUGHES, RUSSELL P; *TRANSITION METAL COMPLEXES DERIVED FROM THREE-MEMBERED RINGS (CHE-8022854)*; 12 MONTHS $43,000

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

SEITZ, W RUDOLF; *CHEMILUMINESCENCE AND BIOLUMINESCENCE FROM IMMOBILIZED REACTANT SYSTEMS (CHE-7825192 A02)*; 12 MONTHS $40,257

ANDERSEN, KENNETH K; *MECHANISMS OF NUCLEOPHILIC SUBSTITUTION AT SULFUR (CHE-7906939 A01)*; 12 MONTHS $37,600

SEITZ, W RUDOLF; *ANALYTICAL REACTIONS BASED ON FLUORESCENCE POLARIZATION (CHE-8025568)*; 12 MONTHS $45,077

NEW JERSEY

PRINCETON UNIVERSITY

SIMON, BARRY M; *MATHEMATICAL PHYSICS (MCS-7801885 A05*)*; 12 MONTHS $19,995

SCHWARTZ, JEFFREY; *TRANSITION METAL REAGENTS IN ORGANIC SYNTHESIS (CHE-7900996 A02)*; 9 MONTHS $82,000

SEMMELHACK, MARTIN F; *NEW METHODS IN ORGANIC SYNTHESIS USING TRANSITION METALS (CHE-7905561 A02)*; 12 MONTHS $61,344

CAKMAK, AHMET S, AND RABITZ, HERSCHEL A; *FINITE ELEMENT METHOD FOR BOUND STATE AND SCATTERING PROBLEMS (CHE-7909409 A02)*; 12 MONTHS $45,000

SPIRO, THOMAS G; *RESONANCE EFFECTS IN SPONTANEOUS AND COHERENT RAMAN SPECTROSCOPY (CHE-7909433 A02)*; 12 MONTHS $50,000

SPIRO, THOMAS G; *RESONANCE EFFECTS IN SPONTANEOUS OF COHERENT RAMAN SPECTROSCOPY (CHE-7909433 A03)*; $81,100

BERNASEK, STEVEN L; *STUDIES OF THE ENERGY STATE OF PRODUCTS OF HETEROGENEOUS REACTIONS ON WELL-CHARACTERIZED METAL SURFACES (CHE-7909467 A02)*; 12 MONTHS $55,000

MC CLURE, DONALD S; *ELECTRONIC SPECTROSCOPY (CHE-7912437 A02)*; 12 MONTHS $74,306

TAYLOR, EDWARD C; *THALLIUM IN ORGANIC SYNTHESIS (CHE-7918676 A01)*; 12 MONTHS $79,658

MISLOW, KURT; *THEORETICAL STEREOCHEMISTRY (CHE-8009470 A01)*; 13 MONTHS $168,000

SPIRO, THOMAS G; *PURCHASE OF DEPARTMENTAL COMPUTER SYSTEM (CHE-8013725)*; 12 MONTHS $121,000

JONES, MAITLAND; *REACTIVE INTERMEDIATES (CHE-8101212)*; 12 MONTHS $91,900

HALL, CAROL K; *STATISTICAL THEORY OF THE PHASE-CHANGE BEHAVIOR OF METALHYDROGEN SYSTEMS (CHE-8109557*)*; 12 MONTHS $27,500

SPIRO, THOMAS G; *PURCHASE OF HIGH-FIELD MULTINUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8110414)*; 12 MONTHS $140,000

RUTGERS UNIVERSITY-BUSCH CAMPUS

MOSS, ROBERT A; *MECHANISTIC STUDIES IN CARBENE CHEMISTRY (CHE-7908602 A01)*; 12 MONTHS $72,200

DENNEY, DONALD B; *PREPARATION AND STUDIES OF HYPERVALENT MOLECULES (CHE-8018579)*; 12 MONTHS $43,792

RUTGERS UNIVERSITY

GOODMAN, LIONEL; *VIBRATIONAL-ELECTRONIC INTERACTIONS IN ONE- AND TWO-PHOTON SPECTRA (CHE-8003299 A01)*; 12 MONTHS $53,458

SAN FILIPPO, JOSEPH; *ODD-ELECTRON INTERMEDIATES AND PATHWAYS IN SELECTED ORGANOMETALLIC PROCESSES (CHE-8017045)*; 12 MONTHS $68,200

YACYNYCH, ALEXANDER M; *POLYMER-FILM CHEMICALLY MODIFIED ELECTRODES AS POTENTIOMETRIC SENSORS (CHE-8022237)*; 12 MONTHS $33,737

LEBOWITZ, JOEL L; *THERMODYNAMIC AND DIELECTRIC PROPERTIES OF FLUIDS (CHE-8114968)*; 12 MONTHS $56,500

NEW MEXICO

NEW MEXICO STATE UNIVERSITY

WILKINS, RALPH G; *RAPID INORGANIC REACTIONS IN SOLUTION (CHE-8019572)*; 12 MONTHS $51,000

UNIVERSITY OF NEW MEXICO

DAUB, GUIDO H; *PURCHASE OF A GAS CHROMATOGRAPH/MASS SPECTROMETER SYSTEM (CHE-8110536)*; 12 MONTHS $87,600

SCHAEFFER, RILEY O; *NEUTRAL CLUSTERS BASED ON METAL-OXYGEN FRAMEWORKS (CHE-8119678)*; 12 MONTHS $47,599

NEW YORK

CITY COLLEGE

LOMBARDI, JOHN R, AND BIRKE, RONALD L; *ENHANCED RAMAN EFFECT AT THE ELECTRODE SOLUTION INTERFACE (CHE-7911159 A02)*; 12 MONTHS $69,296

CLARKSON COLLEGE OF TECHNOLOGY

PETHICA, BRIAN A; *INTERMOLECULAR FORCES IN MONOLAYERS AT LIQUID (AQUEOUS) INTERFACES (CHE-7827566 A02)*; 12 MONTHS $90,000

KERKER, MILTON; *ELASTIC AND INELASTIC SCATTERING BY SMALL PARTICLES (CHE-8011444)*; 12 MONTHS $75,000

MATIJEVIC, EGON; *INTERACTIONS OF COMPLEX SOLUTE SPECIES WITH CHARGED INTERFACES (CHE-8013684 A01)*; 12 MONTHS $95,000

COLLEGE AT ONEONTA

CHIANG, JOSEPH F, PENCE, HARRY E, AND KOEHN, PAUL V; *CONFERENCE ON VAN DER WAALS MOLECULES; ONEONTA, NEW YORK; MARCH 20-21, 1981 (CHE-8017785)*; 12 MONTHS $3,301

COLLEGE AT PLATTSBURGH

RHEINGOLD, ARNOLD L; *ORGANOARSENIC AND ANTIMONY HOMOATOMIC RINGS, CHAINS AND MACROMOLECULES (CHE-7911530 A02)*; 12 MONTHS $31,205

COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

SMID, JOHANNES; *MACROHETEROCYCLIC LIGANDS ON POLYMERS: SOLUTE BINDING AND CATALYSIS (CHE-7905890 A02*)*; 12 MONTHS $33,000

SCHUERCH, CONRAD; *THE REACTIVITY OF CARBOHYDRATE LIGANDS IN METAL CHELATES (CHE-8002405)*; 12 MONTHS $31,836

SARKO, ANATOLE; *CONFORMATIONAL ANALYSIS OF POLYSACCHARIDES (CHE-8107534*)*; 12 MONTHS $45,000

COLUMBIA UNIVERSITY

TURRO, NICHOLAS J; *GENERATION AND CHEMISTRY OF ELECTRONICALLY EXCITED MOLECULES (CHE-7850008 A24)*; 12 MONTHS $176,000

BERNSTEIN, RICHARD B; *LASER MASS SPECTROMETRY: VIBRONIC/MASS SPECTROSCOPY VIA MULTIPLE PHOTON IONIZATION OF POLYATOMIC MOLECULES (CHE-7950008 A15)*; 12 MONTHS $53,024

BERSOHN, RICHARD; *ENERGY DISTRIBUTION OF PHOTOFRAGMENTS (CHE-7950008 A16)*; 12 MONTHS $45,000

BRESLOW, RONALD; *ORGANIC ELECTROCHEMISTRY AND CONJUGATION (CHE-7950008 A17)*; 12 MONTHS $100,800

PECHUKAS, PHILIP; *PROBLEMS IN MOLECULAR COLLISION THEORY (CHE-7950008 A18)*; 12 MONTHS $57,519

BERSOHN, RICHARD; *ENERGY DISTRIBUTION OF PHOTOFRAGMENTS (CHE-7950008 A19)*; $21,170

EISENTHAL, KENNETH B; *PICOSECOND LASER STUDIES OF EXCITED STATE PROCESSES (CHE-7950008 A20)*; 12 MONTHS $74,000

FLYNN, GEORGE W; *LASER STUDIES OF ENERGY FLOW IN POLYATOMIC MOLECULES (CHE-8023747)*; 12 MONTHS $148,000

STILL, W C; *STEREOCONTROL IN ORGANIC SYNTHESIS (CHE-8109090)*; 12 MONTHS $102,426

KATZ, THOMAS J; *CATALYSIS BY METALS (CHE-8108998)*; 5 MONTHS $58,300

LIPPARD, STEPHEN J; *LIGAND BRIDGED BIMETALLIC COMPLEXES AND HIGH COORDINATE METAL ISOCYANIDE CHEMISTRY (CHE-8109390)*; 12 MONTHS $115,542

BERNE, BRUCE J; *MOLECULAR DYNAMICS IN CONDENSED MEDIA (CHE-8110284)*; 12 MONTHS $110,000

BRESLOW, RONALD; *SELECTIVE FUNCTIONALIZATIONS OF SYNTHETIC UTILITY (CHE-8110286)*; 12 MONTHS $66,076

KLEMPERER, WALTER G; *SYNTHESIS, STRUCTURE AND REACTIVITY OF GROUPS 5A AND 6A POLYOXOANIONS (CHE-8112834)*; 5 MONTHS $45,000

STORK, GILBERT; *SYNTHETIC METHODS AND TOTAL SYNTHESIS IN ORGANIC CHEMISTRY (CHE-8115445)*; 12 MONTHS $170,508

BERNSTEIN, RICHARD B; *MOLECULAR BEAM KINETICS: LASER AUGMENTED STUDIES (CHE-8116386)*; 12 MONTHS $191,630

CORNELL UNIVERSITY

WOLF, EDWARD D; *NATIONAL RESEARCH AND RESOURCE FACILITY FOR SUBMICRON STRUCTURES (ECS-7709688 A04*)*; 15 MONTHS $30,000

HOFFMANN, ROALD; *MOLECULAR ORBITAL THEORY OF ORGANIC AND INORGANIC MOLECULES AND THEIR REACTIONS (CHE-7828048 A02)*; 12 MONTHS $120,000

PORTER, RICHARD F, AND KALDOR, ANDREW; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: INFRARED ABSORPTION SPECTROSCOPY OF H3 AND ITS DEUTERATED FORMS (CHE-7909274 A01*)*; 12 MONTHS $26,250

WIDOM, BENJAMIN; *THEORETICAL AND EXPERIMENTAL STUDIES OF PHASE EQUILIBRIUM IN FLUIDS (CHE-7909689 A02)*; 12 MONTHS $70,000

MCLAFFERTY, FRED W; *COMPUTER IDENTIFICATION OF UNKNOWN MASS SPECTRA (CHE-7910400 A1*)*; 12 MONTHS $13,545

GRANT, EDWARD R; *TIME RESOLVED STUDIES OF UNIMOLECULAR DECOMPOSITION: DISSOCIATION DYNAMICS FOR ALCOHOLS, THIOLS AND AMINES (CHE-7920858 A01)*; 12 MONTHS $32,000

GOLDSTEIN, MELVIN J; *STRUCTURE AND MECHANISM IN CYCLOBUTANE PYROLYSIS (CHE-7923217 A01)*; 12 MONTHS $69,600

WIESENFELD, JOHN R; *DISSOCIATIVE AND COLLISIONAL BEHAVIOR IN METAL HALIDES (CHE-8004125 A01)*; 12 MONTHS $71,845

MORRISON, GEORGE H; *ION MICROSCOPY AND ION MICROPROBE ANALYSIS (CHE-8005983)*; 12 MONTHS $131,830

CARPENTER, BARRY K; *THERMAL AND TRANSITION METAL-PROMOTED REACTIONS OF SMALL RING MOLECULES (CHE-8007986 A01)*; 12 MONTHS $49,000

HOUSTON, PAUL L; *LASER STUDIES OF MOLECULAR PHOTODISSOCIATION DYNAMICS IN NOZZLE BEAMS (CHE-8013691)*; 12 MONTHS $77,400

FREED, JACK H; *MOLECULAR RELAXATION BY ESR SPECTROSCOPY AND RELATED PHENOMENA (CHE-8024124)*; 12 MONTHS $80,806

WIDOM, BENJAMIN; *PURCHASE OF A COMPUTER FOR COMPUTATION IN CHEMISTRY (CHE-8026027)*; 12 MONTHS $145,000

GUBBINS, KEITH E; *STATISTICAL MECHANICS OF MOLECULAR LIQUID INTERFACES (CHE-8109502)*; 12 MONTHS $35,000

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

BAUER, SIMON H; *VIBRATION RELAXATION MEASUREMENTS OF DIRECTLY PUMPED TOTALLY SYMMETRIC STATES (CHE-7902804 A01)*; 12 MONTHS $19,000

GANEM, BRUCE; *A NEW CLASS OF OXIDANTS. CATALYTIC EPOXIDATIONS AND BIOMIMETIC OXIDATIONS (CHE-7905525 A02)*; 12 MONTHS $28,498

ALBRECHT, ANDREAS C; *NONLINEAR VIBRONIC AND ELECTRONIC SPECTROSCOPY OF MOLECULES IN THE CONDENSED PHASE (CHE-8016526)*; 12 MONTHS $114,000

MEDICAL FOUNDATION OF BUFFALO INC

HAUPTMAN, HERBERT A; *METHODS OF CRYSTAL AND MOLECULAR STRUCTURE DETERMINATION (CHE-7911282 A02)*; 12 MONTHS $55,000

DORSET, DOUGLAS L; *ELECTRON DIFFRACTION CRYSTAL STRUCTURE ANALYSIS OF ORGANIC MOLECULES (CHE-7916916 A01)*; 12 MONTHS $55,000

NEW YORK UNIVERSITY

SCHUSTER, DAVID I; *PHOTOCHEMICAL REACTIVITY OF UNSATURATED KETONES (CHE-7819750 A02)*; 12 MONTHS $49,500

MOSKOWITZ, JULES W; *ACCURATE AND COMPACT CORRELATION FUNCTIONS FOR MANY ELECTRON ATOMIC AND MOLECULAR SYSTEMS (CHE-8010719 A01)*; 12 MONTHS $41,876

PERCUS, JEROME K; *STUDIES ON NON-UNIFORM FLUIDS (CHE-8011985 A01)*; 12 MONTHS $41,000

DELAHAY, PAUL; *PHOTOELECTRON EMISSION SPECTROSCOPY OF LIQUIDS AND SOLUTIONS (CHE-8100143)*; 12 MONTHS $39,370

LOW, MANFRED J; *ACTIVE SILICEOUS SURFACES (CHE-8111778)*; 12 MONTHS $80,000

RENSSELAER POLYTECHNIC INSTITUTE

POTTS, KEVIN T; *HETEROMACROCYCLES (CHE-7901704 A02)*; 12 MONTHS $36,006

SCHULTZ, ARTHUR G, AND STRONG, ROBERT L; *MECHANISM AND SCOPE OF ARYLOXYACETIC ACID-LIKE PHOTOREARRANGEMENTS (CHE-7923640 A01)*; 12 MONTHS $51,000

FERRIS, JAMES P; *OXIDATIVE AND PHOTOCONDENSATION OF PEPTIDE AND NUCLEOTIDE BONDS USING HCN AND HCN OLIGOMERS (CHE-7924364 A01)*; 12 MONTHS $37,600

HUDSON, JOHN B; *THE ROLE OF PRECURSOR SPECIES IN HETEROGENEOUS CHEMICAL REACTIONS (CHE-8018246)*; 12 MONTHS $45,000

ROCKEFELLER UNIVERSITY

AGOSTA, WILLIAM C; *STRUCTURAL AND STEREOCHEMICAL EFFECTS IN CARBONYL PHOTOCHEMISTRY. RELATED STUDIES OF RADICALS AND CARBENES (CHE-8023349)*; 12 MONTHS $86,800

STATE UNIVERSITY AT ALBANY

KUIVILA, HENRY G; *MECHANISTIC AND EXPLORATORY ORGANOTIN CHEMISTRY (CHE-8105021)*; 6 MONTHS $30,000

GILLISPIE, GREGORY D; *LASER SPECTROSCOPY STUDIES OF INTRAMOLECULAR HYDROGEN BONDING AND EXCITED STATE PROTON TRANSFER (CHE-8111960)*; 12 MONTHS $39,964

BLOCK, ERIC; *STUDIES IN ORGANOSULFUR CHEMISTRY: NEW SULFINE CHEMISTRY (CHE-8115308*)*; 12 MONTHS $71,736

STATE UNIVERSITY AT BINGHAMTON

INNES, K KEITH; *MOLECULAR ELECTRONIC SPECTRA AND STRUCTURE (CHE-7809735 A03)*; $28,580

EISCH, JOHN J; *STEREOCHEMISTRY AND MECHANISMS OF ORGANOMETALLIC INSERTION AND REARRANGEMENT REACTIONS WITH UNSATURATED HYDROCARBONS (CHE-7918188 A01)*; 12 MONTHS $44,500

INNES, K KEITH; *MOLECULAR ELECTRONIC SPECTRA AND STRUCTURE (CHE-8109484)*; 12 MONTHS $59,727

STATE UNIVERSITY AT BUFFALO

RITCHIE, CALVIN D; *SOLVENT EFFECTS ON REACTIVITY (CHE-7724701 A03)*; 12 MONTHS $57,000

MCIVER, JAMES W; *THEORETICAL CALCULATIONS OF INFRARED AND RAMAN INTENSITIES (CHE-7901138 A02)*; 12 MONTHS $39,682

ATWOOD, JIM D; *CARBON MONOXIDE REDUCTION AND METAL CLUSTER COMPLEXES (CHE-7904982 A02)*; 12 MONTHS $33,900

COPPENS, PHILIP; *CHARGE DENSITIES IN SOLIDS BY X-RAY AND NEUTRON DIFFRACTION (CHE-7905897 A02)*; 11 MONTHS $90,000

OSTERYOUNG, ROBERT A, AND OSTERYOUNG, JANET; *ANALYTICAL PULSE VOLTAMMETRY (CHE-7917543 A02)*; 12 MONTHS $166,845

CHURCHILL, MELVYN R; *STRUCTURAL STUDIES IN ORGANOMETALLIC AND BORON CHEMISTRY (CHE-8023448)*; 12 MONTHS $45,000

LANSBURY, PETER T; *NOVEL STRATEGIES IN NATURAL PRODUCTS SYNTHESIS (CHE-8026526)*; 12 MONTHS $56,935

BEACHLEY, O T; *THE CHEMISTRY OF NUCLEOPHILIC ORGANOMETALLIC ANIONS (CHE-8103316)*; 12 MONTHS $63,860

STATE UNIVERSITY AT STONY BROOK

STELL, GEORGE; *STATISTICAL MECHANICS OF THE LIQUID STATE (CHE-7900838 A02)*; 12 MONTHS $60,000

LAUHER, JOSEPH W; *NEW APPROACHES TO BIMETALLIC CLUSTERS AND CATALYSIS (CHE-7950004 A17)*; 12 MONTHS $45,648

CHU, BENJAMIN; *PHASE TRANSITIONS AND PROPERTIES OF POLYMER SOLUTIONS (DMR-8016521*)*; 18 MONTHS $75,000

LE NOBLE, WILLIAM J; *VOLUME PROFILES OF CHEMICAL PROCESSES (CHE-8021068)*; 12 MONTHS $72,700

FOWLER, FRANK W; *NEW APPROACHES TO THE SYNTHESIS OF NITROGEN HETEROCYCLES (CHE-8106040)*; 12 MONTHS $39,439

FRIEDMAN, HAROLD L; *ION DISTRIBUTION IN SOLUTION (CHE-8108239)*; 12 MONTHS $55,000

PRESTWICH, GLENN D; *ISOPRENOID BIOSYNTHESIS BY INSECTS (CHE-8110293)*; 12 MONTHS $23,700

RAMIREZ, FAUSTO; *ORGANIC COMPOUNDS OF PHOSPHORUS (CHE-8110294)*; 12 MONTHS $56,000

HAIM, ALBERT; *THERMAL AND PHOTOCHEMICAL REDOX REACTIONS OF TRANSITION METAL COMPLEXES (CHE-8110296)*; 12 MONTHS $55,000

JOHNSON, PHILIP M; *DETERMINATION OF MOLECULAR EXCITED STATE PROPERTIES BY MULTIPHOTON IONIZATION SPECTROSCOPY (CHE-8111563)*; 12 MONTHS $45,000

DALTON, LARRY R; *DEVELOPMENT OF SATURATION TRANSFER AND TIME RESOLVED TECHNIQUES AND THEIR APPLICATION TO THE HYDRODYNAMIC CHARACTERIZATION OF PROTEINS AND SUPRAMOLECULAR COMPLEXES (CHE-8112449*)*; 12 MONTHS $34,000

SYRACUSE UNIVERSITY

ANASTASSIOU, A G; *SYNTHESIS AND STUDY OF HETEROANNULENES (CHE-7901643 A02)*; 12 MONTHS $53,532

ATKINSON, GEORGE H; *CHARACTERIZATION OF INTERMEDIATES IN CHEMICAL AND PHOTOCHEMICAL REACTIONS BY TIME-RESOLVED RAMAN SPECTROSCOPY (CHE-7903854 A02)*; 11 MONTHS $45,600

NAFIE, LAURENCE A; *VIBRATIONAL CIRCULAR DICHROISM SPECTROSCOPY (CHE-8005227 A01)*; 12 MONTHS $54,000

LEVY, GEORGE C, AND LONDON, ROBERT E; *MULTI-FIELD MULTINUCLEI NMR SPECTROSCOPY (CHE-8105109*)*; 12 MONTHS $106,938

UNIVERSITY OF ROCHESTER

SAUNDERS, W H; *ISOTOPE EFFECTS IN ELIMINATIONS AND OTHER PROTON TRANSFER REACTIONS (CHE-7920774 A01)*; 12 MONTHS $66,600

BOECKMAN, ROBERT K; *METHODOLOGY AND APPLICATION TO THE TOTAL SYNTHESIS OF MACROCYCLIC NATURAL PRODUCTS (CHE-8025176 A01)*; 12 MONTHS $45,600

EISENBERG, RICHARD; *HOMOGENEOUS CATALYSIS OF THE WATER GAS SHIFT REACTION. ITS APPLICATIONS, AND CARBON-HYDROGEN BOND ACTIVATION (CHE-8011974 A01)*; 12 MONTHS $79,500

MUENTER, JOHN S; *STRUCTURE AND DYNAMICS OF LASER EXCITED AND WEAKLY BOUND SPECIES (CHE-8012723 A01)*; 12 MONTHS $92,000
GEORGE, THOMAS F; *THEORETICAL STUDIES OF LASER-INDUCED CHEMI-IONIZATION (CHE-8022874)*; 12 MONTHS $45,000
PERRY, DAVID S; *COLLISIONLESS DYNAMICS OF VIBRATIONALLY EXCITED POLYATOMIC MOLECULES (CHE-8023217)*; 12 MONTHS $47,604
KENDE, ANDREW S; *PURCHASE OF A MEDIUM RESOLUTION MASS SPECTROMETER (CHE-8103302)*; 12 MONTHS $120,000
FARRAR, JAMES M; *MULTIPHOTON IONIZATION STUDY OF ASSOCIATIVE DETACHMENT REACTIONS (CHE-8109559)*; 12 MONTHS $65,000

NORTH CAROLINA

DUKE UNIVERSITY

LOCHMULLER, CHARLES H; *STUDIES OF STRUCTURE AND SELECTIVITY IN GAS-AND HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY (CHE-7817087 A02)*; 12 MONTHS $41,000
PORTER, NED A; *PEROXIDES AND PEROXY RADICALS: A MECHANISTIC STUDY (CHE-8026541)*; 12 MONTHS $84,600
QUIN, LOUIS D; *SYNTHESIS OF SOME NEW AROMATIC SYSTEMS CONTAINING PHOSPHORUS (CHE-8106789)*; 12 MONTHS $42,034

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

DE ARMOND, M KEITH; *MULTIPLE STATE EMISSION IN TRANSITION METAL COMPLEXES (CHE-8014183)*; 12 MONTHS $51,000
BUMGARDNER, CARL L; *PURCHASE OF DYE-LASER SYSTEM (CHE-8104993)*; 12 MONTHS $42,000
DAVIS, ROBERT F; *ACQUISITION OF AN ION MICROPROBE (08R-8107499*)*; 12 MONTHS $50,000

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

PARR, ROBERT G; *THEORETICAL INVESTIGATIONS OF THE ELECTRONIC STRUCTURE OF MOLECULES (CHE-7722951 A03)*; 12 MONTHS $100,000
SORRELL, THOMAS N; *PREPARATION OF TETRAHEDRAL COMPLEXES OF IRON (CHE-7817324 A02)*; 12 MONTHS $30,000
WHITTEN, DAVID G; *ORGANIZED MEDIA (CHE-7823126 A02)*; 12 MONTHS $79,400
ELIEL, ERNEST L; *HIGHLY STEREOSELECTIVE ASYMMETRIC SYNTHESES (CHE-7828118 A02)*; 12 MONTHS $29,952
MURRAY, ROYCE W, AND BUCK, RICHARD P; *FUNDAMENTAL STUDIES OF ELECTROCHEMICAL PROCESSES, TECHNIQUES, INSTRUMENTATION: CHEMICALLY MODIFIED METAL AND METAL OXIDE ELECTRODES (CHE-7920114 A01)*; 12 MONTHS $131,960
MEYER, THOMAS J; *THE RATIONAL DESIGN OF METAL ION REDOX CATALYSTS (CHE-8002433 A01)*; 12 MONTHS $57,300
MEYER, THOMAS J; *PHOTOCHEMICAL AND ELECTRON TRANSFER REACTIONS OF METAL COMPLEXES (CHE-8008922 A01)*; 12 MONTHS $64,500
HATFIELD, WILLIAM E; *SPIN-SPIN COUPLING IN MAGNETICALLY CONDENSED COMPOUNDS (CHE-8009685 A01)*; 12 MONTHS $64,600
ELIEL, ERNEST L; *CONFORMATIONAL ANALYSIS AND NMR SPECTROSCOPY: PRINCIPLES AND APPLICATIONS (CHE-8020388)*; 12 MONTHS $74,000
JOHNSON, CHARLES S; *STUDIES OF MOLECULAR STRUCTURE AND CHEMICAL RATE PROCESSES BY MEANS OF LASER LIGHT SCATTERING (CHE-8022198)*; 12 MONTHS $119,963
DEPRISTO, ANDREW E; *QUANTUM NUMBER SCALING THEORIES: I. MATHEMATICAL FOUNDATIONS; II. APPLICATIONS TO MOLECULAR COLLISION PROCESSES (CHE-8023441)*; 12 MONTHS $34,999
ISENHOUR, THOMAS L; *COMPUTER APPLICATIONS TO ANALYTICAL CHEMISTRY (CHE-8026747)*; 12 MONTHS $93,000
BUCK, RICHARD P; *IONIC TRANSPORT, INCLUDING EQUILIBRIA KINETICS AND ADSORPTION AT LIQUID/LIQUID INTERFACES; RESONANCE- & SURFACE ENHANCED-RAMAN SPECTROSCOPY OF SURFACE-ADSORBED SPECIES (CHE-8103334)*; 12 MONTHS $100,292
BAER, TOMAS; *DISSOCIATION AND ISOMERIZATION OF STATE SELECTED IONS (CHE-8106079)*; 12 MONTHS $97,000
HILLS, GRAHAM W; *DOUBLE RESONANCE SPECTROSCOPY USING A COLOR CENTER LASER (CHE-8111131)*; 12 MONTHS $92,800

NORTH DAKOTA

NORTH DAKOTA STATE UNIVERSITY CENTRAL OFFICE

KOBB, ROBERT D; *STRUCTURAL INVESTIGATIONS BY ELECTRON DIFFRACTION AND SPECTROSCOPIC TECHNIQUES (CHE-7908614 A02)*; $5,170

OHIO

BATTELLE MEMORIAL INSTITUTE

SHAVITT, ISAIAH; *UNITARY GROUP METHODS FOR THE ELECTRON CORRELATION PROBLEM (CHE-7825191 A02)*; 12 MONTHS $50,000

CASE WESTERN RESERVE UNIVERSITY

NORDLANDER, J; *MECHANISMS OF CARBOCATION REACTIONS (CHE-7821790 A02)*; 12 MONTHS $38,000
SALOMON, ROBERT G; *HOMOGENEOUS CATALYSIS IN ORGANIC SYNTHESIS (CHE-7901653 A02)*; 12 MONTHS $33,167
FACKLER, JOHN P; *CHEMISTRY OF SULFUR AND YLIDE COORDINATION COMPOUNDS (CHE-8013141 A01)*; 12 MONTHS $68,000
STUEHR, JOHN E; *PURCHASE OF A HIGH FIELD, HIGH RESOLUTION NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8024633)*; 12 MONTHS $124,000
DUNBAR, ROBERT C; *GAS-PHASE IONS (CHE-8110624)*; 6 MONTHS $39,100

KENT STATE UNIVERSITY

GOULD, EDWIN S; *ELECTRON TRANSFER REACTIONS IN SOLUTION (CHE-8022881)*; 12 MONTHS $43,600

OHIO STATE UNIVERSITY

LAUB, RICHARD J; *ANALYTICAL AND PHYSICO-CHEMICAL STUDIES BY GAS-LIQUID CHROMATOGRAPHY (CHE-7830477 A02)*; 12 MONTHS $50,020
MCCREERY, RICHARD L; *DIFFRACTIVE SPECTROELECTROCHEMISTRY (CHE-7828068 A02)*; 12 MONTHS $38,680
PAQUETTE, LEO A; *SYNTHESIS AND ISOMERIZATION REACTIONS OF NOVEL ALICYCLIC MOLECULES (CHE-7900333 A02)*; 12 MONTHS $85,370
PLATZ, MATTHEW S; *CHEMISTRY AND SPECTROSCOPY OF HIGH ENERGY INTERMEDIATES (CHE-7900896 A02)*; 12 MONTHS $59,000
NEWMAN, MELVIN S; *STERIC EFFECTS IN POLYCYCLIC AROMATIC HYDROCARBONS (CHE-7901836 A02)*; 12 MONTHS $29,500
MC CURDY, CLYDE W; *EXTENSION OF COMPLEX COORDINATE AND COMPLEX BASIS FUNCTION TECHNIQUES TO MOLECULAR SYSTEMS: RESONANCES AND PHOTOIONIZATION (CHE-7907787 A02)*; 12 MONTHS $43,680
CHRISTOPH, GARY G; *STRUCTURAL STUDIES OF SMALL LINEAR CLUSTER MODELS FOR METAL SURFACES AND CATALYSTS (CHE-7911164 A02)*; 12 MONTHS $34,521
WOJCICKI, ANDREW; *CHEMISTRY OF METAL-CARBON SIGMA BONDS (CHE-7911882 A02)*; 12 MONTHS $47,758
SHORE, SHELDON G; *SYNTHESES AND STUDIES OF SELECTED METAL CARBONYL AND METALLOBORANE CLUSTER SYSTEMS (CHE-7918148 A02)*; 12 MONTHS $72,128
PARSON, JOHN M; *MOLECULAR BEAM STUDIES OF REACTIONS OF LASER-EXCITED METAL ATOMS WITH GASES USING SPECTROSCOPIC DETECTION OF PRODUCTS (CHE-7921267 A01)*; 12 MONTHS $40,000
FRAENKE, GIDEON; *DYNAMICS, SYNTHESIS AND STRUCTURE OF CARBANIONIC SUBSTANCES (CHE-8007439 A02)*; 12 MONTHS $74,000
SWENTON, JOHN S; *THE UTILIZATION OF ELECTROCHEMICAL REACTIONS AND ELECTROCHEMICALLY DERIVED PRODUCTS IN ORGANIC SYNTHESIS (CHE-8009229 A01)*; 12 MONTHS $50,561
SHECHTER, HAROLD; *SINGLE-ATOM PERI-BRIDGED ARENES AND HETARENES; CARBENIC PROCESSES (CHE-8019750)*; 12 MONTHS $61,695
KUWANA, THEODORE; *STUDY OF MODIFIED CARBON/GRAPHITIC SURFACES FOR ELECTROCATALYSIS (CHE-8110013)*; 12 MONTHS $111,942
BUSCH, DARYLE H; *TOTALLY SYNTHETIC HEME PROTEIN MODELS (CHE-8112898)*; 12 MONTHS $65,300

UNIVERSITY OF CINCINNATI

GILBERT, T W; *DEVELOPMENT AND APPLICATION OF NEW INSTRUMENTATION FOR LIQUID CHROMATOGRAPHY (CHE-7715219 A02)*; 12 MONTHS $29,700
HEINEMAN, WILLIAM R; *VOLTAMMETRIC IMMUNOASSAY AND INTERMETALLIC EFFECTS IN ANODIC STRIPPING VOLTAMMETRY (CHE-7911872 A02)*; 12 MONTHS $40,000
DEUTSCH, EDWARD A; *EQUILIBRIUM AND DYNAMIC EFFECTS INDUCED BY COORDINATION OF SULFUR, SELENIUM OR TELLURIUM TO ROBUST METAL COMPLEXES (CHE-7926497 A01)*; 12 MONTHS $64,100
WILSON, R MARSHAL; *THE SYNTHESIS AND CHEMISTRY OF NATURAL PRODUCT PEROXIDE DERIVATIVES: CHEMICAL APPLICATIONS OF THE LASER (CHE-8004235 A01)*; 12 MONTHS $58,036
MARK, HARRY B; *PURCHASE OF A RAMAN SPECTROMETER (CHE-8024639)*; 12 MONTHS $40,000
AULT, BRUCE S; *MATRIX ISOLATION STUDIES OF ANIONIC CHEMICAL INTERMEDIATES (CHE-8100119)*; 12 MONTHS $39,700
MARK, JR, HARRY B; *PURCHASE OF SUPERCONDUCTING NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8102974)*; 12 MONTHS $143,000

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

RAFF, LIONEL M; *INVESTIGATIONS OF GAS-PHASE COLLISION DYNAMICS (CHE-7825563 A02)*; 12 MONTHS $32,000
PURDIE, NEIL; *ANALYTICAL MEASUREMENTS USING OPTICAL DICHROISM (CHE-7909388 A01)*; 12 MONTHS $31,065
MOTTOLA, HORACIO A; *USE OF TRANSIENT EFFECTS FOR CHEMICAL ANALYSIS (CHE-7923956 A01)*; 12 MONTHS $46,812
DEVLIN, J PAUL; *SPECTROSCOPIC STUDIES OF THE STRUCTURES AND DYNAMICS OF IONIC SYSTEMS (CHE-7925567 A01)*; 12 MONTHS $54,878
HOLT, SMITH L; *CHEMICAL PROCESSES IN MICROEMULSIONS (CHE-8025736)*; 12 MONTHS $49,600
PURDIE, NEIL; *PURCHASE OF A MULTINUCLEAR NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8106157)*; 12 MONTHS $146,000

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

ZUCKERMAN, JEROLD J; *SYNTHESIS AND SPECTROSCOPIC PROPERTIES OF ORGANOTIN COMPOUNDS (CHE-7826584 A02)*; 12 MONTHS $26,769
CHRISTIAN, SHERRIL D; *VAPOR PRESSURE STUDIES OF HYDROPHOBIC INTERACTIONS (CHE-8103084)*; 12 MONTHS $60,000
DRYHURST, GLENN; *PURCHASE OF A 270 MHZ FOURIER TRANSFORM NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8113507)*; 12 MONTHS $128,102

OREGON

OREGON STATE UNIVERSITY

PIEPMEIER, EDWARD H; *CHEMICALLY ENHANCED LASER MICROPROBE ANALYSIS OF REFRACTORY MATERIALS (CHE-7901759 A02)*; 12 MONTHS $47,600

NIBLER, JOSEPH W; *RAMAN AND FLUORESCENCE STUDIES OF TRANSIENT AND REACTIVE MOLECULES (CHE-7906381 A02)*; 12 MONTHS $71,765

NIBLER, JOSEPH W; *RAMAN AND FLUORESCENCE STUDIES OF TRANSIENT AND REACTIVE MOLECULES (CHE-7906381 A03)*; $4,077

INGLE, JAMES D; *LUMINESCENCE KINETICS-BASED MEASUREMENTS (CHE-7921293 A01)*; 12 MONTHS $50,400

EVANS, GLENN T; *LIQUID STATE DYNAMICS OF NON-RIGID MOLECULES (CHE-8000015 A01)*; 12 MONTHS $36,000

THOMAS, T DARRAH; *ELECTRON SPECTROSCOPY OF SMALL ATOMS AND MOLECULES (CHE-8019760)*; 12 MONTHS $64,300

WHITE, JAMES D; *TOTAL SYNTHESIS OF SECONDARY METABOLITES (CHE-8101223)*; 12 MONTHS $104,391

HEDBERG, KENNETH; *STRUCTURES, DYNAMICS, AND VIBRATIONAL POTENTIAL FUNCTIONS OF MOLECULES (CHE-8110541)*; 12 MONTHS $90,000

UNIVERSITY OF OREGON - EUGENE

BOEKELHEIDE, VIRGIL; *MOLECULES WITH NOVEL PI-ELECTRON SYSTEMS (CHE-7901763 A02)*; 12 MONTHS $103,356

HERRICK, DAVID R; *THEORETICAL STUDIES IN CHEMICAL PHYSICS (CHE-7909500 A02)*; 12 MONTHS $37,000

MOSELEY, JOHN T; *ION PHOTODISSOCIATION AND PHOTOFRAGMENT SPECTROSCOPY (CHE-7918074 A02)*; 12 MONTHS $60,000

NOYES, RICHARD M; *CHEMICAL OSCILLATIONS AND INSTABILITIES (CHE-8005500)*; 13 MONTHS $64,700

NOYES, RICHARD M; *THEORETICAL STUDIES IN CHEMICAL PHYSICS (CHE-8009555 A01)*; 12 MONTHS $37,500

FINKE, RICHARD G; *SYNTHETIC AND MECHANISTIC ORGANOTRANSITION METAL CHEMISTRY: PART I: HETEROBIMETALLIC COMPLEXES: PART II: HETEROPOLYTUNGSTATE CHEMISTRY (CHE-8018199)*; 12 MONTHS $45,200

KOENIG, THOMAS W; *PHOTOELECTRON SPECTRA OF ORGANIC INTERMEDIATES (CHE-8103088)*; 12 MONTHS $45,204

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

POPLE, JOHN A; *DEVELOPMENT AND APPLICATION OF MOLECULAR ORBITAL THEORY (CHE-7901961 A02)*; 12 MONTHS $119,787

DREXEL UNIVERSITY

SMITH, ALLAN L; *SPECTROSCOPY AND KINETICS OF TRANSIENT SPECIES CONTAINING RARE GAS ATOMS (CHE-7813262 A02)*; 12 MONTHS $39,058

DAVIS, FRANKLIN A; *CHEMISTRY OF SULFENIC ACIDS (CHE-7819890 A02)*; 12 MONTHS $38,000

HUTCHINS, ROBERT O; *MODIFIED CYANOBOROHYDRIDE REAGENTS FOR SELECTIVE AND ASYMMETRIC REDUCTIONS (CHE-7909167 A02)*; 12 MONTHS $37,700

LEHIGH UNIVERSITY

FOWKES, FREDERICK M; *PURCHASE OF A HIGH PERFORMANCE LIQUID CHROMATOGRAPH (CHE-8103029)*; 12 MONTHS $17,000

PENNSYLVANIA STATE UNIVERSITY

ANDERSON, JAMES B; *QUANTUM CHEMISTRY BY RANDOM WALK (CHE-7825287 A02)*; 12 MONTHS $26,000

POLO, SANTIAGO R, AND MC CUBBIN, THOMAS K; *HIGH RESOLUTION MOLECULAR SPECTROSCOPY (CHE-7906582 A02)*; 12 MONTHS $51,085

BORROCKS, WILLIAM D; *OPEN-SHELL IONS AS STRUCTURAL PROBES (CHE-7919581 A01)*; 12 MONTHS $75,000

WINOGRAD, NICHOLAS; *ESCA/SIMS AND PARTICLE/SURFACE INTERACTIONS FOR PREPARATION AND ANALYSIS OF SURFACES (CHE-7919605 A02)*; $27,000

JACKMAN, LLOYD M; *NUCLEAR MAGNETIC RESONANCE STUDIES OF HYDROGEN BONDS AND IONIC AGGREGATES (CHE-8002436 A01)*; 12 MONTHS $44,000

STEELE, WILLIAM A; *DYNAMICAL AND EQUILIBRIUM PROPERTIES OF DENSE MULTIPOLAR FLUIDS (CHE-8005364 A01)*; 12 MONTHS $68,000

STEELE, WILLIAM A; *DYNAMICAL AND EQUILIBRIUM PROPERTIES OF DENSE MULTIPOLAR FLUIDS (CHE-8005364 A02)*; $6,335

RICHEY, HERMAN G; *CHEMISTRY AND REACTIVITY OF ORGANOMAGNESIUM COMPOUNDS (CHE-8016504)*; 12 MONTHS $67,600

GARRISON, BARBARA J; *SURFACE STRUCTURE BY CLASSICAL DYNAMICS: INTERACTION OF KEV IONS WITH SOLIDS (CHE-8022524)*; 12 MONTHS $23,000

BERNHEIM, ROBERT A; *MULTIPHOTON MOLECULAR SPECTROSCOPY (CHE-8023224)*; 12 MONTHS $54,000

WEINREB, STEVEN M; *SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS (CHE-8100132)*; 12 MONTHS $62,253

JACKMAN, LLOYD M; *HETEROALLYLLITHIUM AND A-HETEROSUBSTITUTED ALLYLLITHIUM REAGENTS - STRUCTURE AND MECHANISM (CHE-8103037)*; 12 MONTHS $40,000

GEOFFROY, GREGORY L; *PHOTOGENERATION OF REACTIVE ORGANOMETALLIC COMPLEXES (CHE-8104986)*; 12 MONTHS $35,200

WINOGRAD, NICHOLAS; *PARTICLE/SURFACE INTERACTIONS AND THE CHEMICAL AND STRUCTURAL ANALYSIS OF SURFACES (CHE-8108382)*; 4 MONTHS $173,769

TEMPLE UNIVERSITY

GONCALVES, ANTONIO M; *SPIN SELECTION RULES IN CHEMICAL REACTIONS (CHE-8009219 A01)*; 12 MONTHS $58,000

UNIVERSITY OF PENNSYLVANIA

TOPP, MICHAEL R; *FLUORESCENCE SPECTROSCOPY OF SUBPICOSECOND EXCITED STATES (CHE-7825312 A02)*; 12 MONTHS $52,393

WHITE, DAVID, AND OPELLA, STANLEY J; *NMR STUDIES OF MOLECULES AND MOLECULAR AGGREGATES IN INERT RARE GAS MATRICES (CHE-7825779 A02)*; 12 MONTHS $43,929

CAVA, MICHAEL P; *ORGANIC SULFUR, SELENIUM AND TELLURIUM CHEMISTRY (CHE-7925017 A01)*; 12 MONTHS $80,157

HOCHSTRASSER, ROBIN M; *ULTRAFAST SPECTROSCOPY AND OTHER APPLICATIONS OF LASERS IN CHEMISTRY (CHE-8000016 A01)*; 12 MONTHS $70,000

SNEDDON, LARRY G; *SYNTHETIC APPLICATIONS OF TRANSITION METAL REAGENTS IN POLYHEDRAL BORON CAGE CHEMISTRY (CHE-8106126)*; 12 MONTHS $52,300

NIXON, EUGENE R; *SMALL CLUSTERS OF METAL ATOMS AND THEIR BONDING WITH UNSATURATED MOLECULES (CHE-8111779)*; 12 MONTHS $57,700

UNIVERSITY OF PITTSBURGH

COHEN, THEODORE; *NEW METHODS FOR SYNTHESIS AND MODIFICATION OF RINGS (CHE-7906651 A02)*; 12 MONTHS $44,573

WALLACE, W E, AND CRAIG, RAYMOND S; *STUDIES OF VERY HYDROGEN-RICH METALLIC SYSTEMS (CHE-7908914 A02)*; 12 MONTHS $50,000

SISKA, PETER E; *CROSSED MOLECULAR BEAM AND THEORETICAL STUDIES OF METASTABLE RARE GAS INTERACTIONS (CHE-7926400 A01)*; 12 MONTHS $44,197

HERCULES, DAVID M; *INDUSTRY/UNIVERSITY COOPERATIVE ACTIVITY: INVESTIGATIONS INVOLVING A NOVEL CLASS OF SUPPORTED METAL CATALYSTS (CHE-8020001*)*; 12 MONTHS $75,240

HOUK, KENDALL N; *EXPERIMENTAL AND THEORETICAL INVESTIGATIONS OF ORGANIC REACTION RATES AND MECHANISMS (CHE-8020192 A01)*; 15 MONTHS $113,500

PRATT, DAVID W; *ODMR SPECTROSCOPY IN SUPERSONIC JETS. GAS PHASE STRUCTURE AND DYNAMICS OF EXCITED TRIPLET STATES (CHE-8021082)*; 12 MONTHS $142,628

SHEPHERD, REX E; *PROPERTIES AND REACTION KINETICS OF METAL IMIDAZOLE AND IMIDAZOLATE COMPLEXES (CHE-8021083)*; 12 MONTHS $49,100

HERCULES, DAVID M; *PURCHASE OF LASER MICROPROBE MASS ANALYZER (CHE-8021527)*; 12 MONTHS $196,000

COETZEE, JOHANNES F; *STUDIES OF ION SOLVATION AND OF ITS APPLICATIONS TO ELECTROANALYTICAL CHEMISTRY IN OPTIMIZED SOLVENTS (CHE-8106778)*; 12 MONTHS $53,199

HERCULES, DAVID M; *ANALYTICAL CHEMISTRY OF SURFACES (CHE-8108495)*; 12 MONTHS $95,000

JORDAN, KENNETH D; *THEORETICAL STUDY OF MOLECULAR IONS (CHE-8109255)*; 12 MONTHS $53 439

PUERTO RICO

UNIVERSITY OF PUERTO RICO, RIO PIEDRAS

BLUM, LESSER; *STATISTICAL MECHANICS OF THE ELECTRIC DOUBLE LAYER (CHE-8001969 A01*)*; 9 MONTHS $37,400

RHODE ISLAND

BROWN UNIVERSITY

MASON, EDWARD A; *MOTIONS AND INTERACTIONS OF IONS IN GASES (CHE-7809332 A02)*; 12 MONTHS $27,990

COLE, ROBERT H; *DIELECTRIC RELAXATION BY TIME DOMAIN SPECTROSCOPY (CHE-7822909 A02)*; 12 MONTHS $30,000

LAWLER, RONALD G; *ION PRODUCTION FROM NEUTRAL RADICALS IN SOLUTION (CHE-7824171 A02)*; 12 MONTHS $62,000

GREENE, EDWARD F; *PURCHASE OF ELECTRON PARAMAGNETIC RESONANCE SYSTEM (CHE-8023703)*; 12 MONTHS $64,200

SWEIGART, DWIGHT A, AND ITTEL, SREPHEN D; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: NUCLEOPHILIC ADDITION TO CYCLIC HYDROCARBONS (CHE-8023964*)*; 12 MONTHS $35,000

GORDON RESEARCH CONFERENCES

CRUICKSHANK, ALEXANDER M; *CONFERENCE ON FEW-BODY PROBLEMS IN CHEMISTRY AND PHYSICS; WOLFEBORO, NEW HAMPSHIRE; AUGUST 10-14, 1981 (CHE-8021494)*; 12 MONTHS $4,800

CRUICKSHANK, ALEXANDER M; *GORDON CONFERENCE ON CHEMISTRY OF NATURAL PRODUCTS, NEW HAMPTON, NEW HAMPSHIRE, JULY 20-24, 1981 (CHE-8022502)*; 8 MONTHS $3,000

UNIVERSITY OF RHODE ISLAND

NELSON, WILFRED H; *THE RESONANCE-ENHANCED-RAYLEIGH-DEPOLARIZED SCATTERING OF HIGHLY-ANISOTROPIC LIGANDS USED AS OPTICAL STRUCTURAL PROBES IN METAL COMPLEXES (CHE-8112572)*; 12 MONTHS $14,000

SOUTH CAROLINA

FURMAN UNIVERSITY

KNIGHT, LON B; *ESR RARE GAS MATRIX ISOLATION STUDIES OF METAL CONTAINING RADICALS (CHE-7910134 A02)*; 12 MONTHS $38,800

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

BLY, ROBERT S; *THE EFFECT OF ION PAIRING ON THE STRUCTURE AND REACTIVITY OF 2-BREXYL CATION GENERATED VIA PI- AND SIGMA-ROUTES (CHE-7812446 A02)*; 12 MONTHS $24,200

GOODE, SCOTT R; *A FUNDAMENTAL STUDY OF THE MICROWAVE-EXCITED PLASMA (CHE-7815436 A02)*; 12 MONTHS $31,100

DURIG, JAMES R; *SPECTROSCOPIC STUDIES AND POTENTIAL FUNCTIONS FOR LINEAR AND QUASI-LINEAR MOLECULES CONTAINING SILICON AND GERMANIUM (CHE-7920763 A01)*; 12 MONTHS $57,000

DURIG, JAMES R; *SPECTROSCOPIC STUDIES AND POTENTIAL FUNCTIONS FOR LINEAR AND QUASI-LINEAR MOLECULES CONTAINING SILICON AND GERMANIUM (CHE-7920763 A02)*; $15,000

ODOM, JEROME D; *NUCLEAR MAGNETIC RESONANCE STUDIES OF INORGANIC AND ORGANOMETALLIC COMPOUNDS OF GROUPS IIIA, VA AND VIA (CHE-8013694 A01)*; 12 MONTHS $40,000

BRYSON, THOMAS A; *MEDIUM AND MACROCYCLIC RING SYNTHESIS BY ORGANOBORANES (CHE-8014180)*; 12 MONTHS $42,609

REGER, DANIEL L; *CONVERSION OF ALKYNES INTO SPECIFICALLY SUBSTITUTED ALKENES USING ORGANOMETALLIC IRON INTERMEDIATES (CHE-8019513)*; 12 MONTHS $35,900

MARSHALL, JAMES A; *NEW SYNTHETIC APPROACHES TO CARBOCYCLIC COMPOUNDS (CHE-8026013)*; 12 MONTHS $74,400

GILKERSON, WILLIAM R; *SPECTROSCOPIC STUDIES OF ION PAIR FORMATION (CHE-8100217)*; 12 MONTHS $33,000

TENNESSEE

UNIVERSITY OF TENNESSEE AT KNOXVILLE

CHAMBERS, JAMES Q; *NOVEL MULTISULFUR MATERIALS: ELECTROCHEMISTRY, ELECTRON SPIN RESONANCE, AND ELECTRONIC CONDUCTIVITY (CHE-7808709 A02)*; 12 MONTHS $36,700

WEHRY, EARL L; *ANALYTICAL APPLICATIONS OF LASER-INDUCED MATRIX ISOLATION SPECTROSCOPY AND ELECTRON-INDUCED MOLECULAR LUMINESCENCE SPECTROMETRY (CHE-8025282)*; 12 MONTHS $112,226

MAMANTOV, GLEB; *PURCHASE OF AN ELECTRON SPIN RESONANCE SPECTROMETER SYSTEM (CHE-8106912)*; 12 MONTHS $60,000

VANDERBILT UNIVERSITY

BANNA, M SALIM; *X-RAY PHOTOELECTRON AND AUGER ELECTRON SPECTROSCOPY OF ATOMS (CHE-7918390 A01)*; 12 MONTHS $29,000

LUKEHART, CHARLES M; *METALLA-DERIVATIVES OF SELECTED BIOLOGICALLY IMPORTANT MOLECULES (CHE-8106140)*; 12 MONTHS $42,448

TEXAS

RICE UNIVERSITY

GLASS, GRAHAM P; *GASEOUS REACTIONS OF VIBRATIONALLY EXCITED HYDROXYL RADICALS (CHE-7722416 A02)*; 12 MONTHS $35,000

MARGRAVE, JOHN L; *PHYSICAL CHEMISTRY OF SELECTED HIGH TEMPERATURE SYSTEMS (CHE-7724348 A03)*; 6 MONTHS $27,859

LEWIS, EDWARD S; *SELECTIVITY AND REACTIVITY IN SUBSTITUTION REACTIONS (CHE-7825913 A02)*; 12 MONTHS $36,500

CURL, ROBERT F, AND TITTEL, FRANK K; *HIGH RESOLUTION LASER SPECTROSCOPY (CHE-7826572 A02)*; 12 MONTHS $52,207

PARRY, RONALD J; *BIOSYNTHESIS AND METABOLISM OF SULFUR COMPOUNDS (CHE-8004112 A01)*; 12 MONTHS $38,600

SMALLEY, RICHARD E; *PHOTOCHEMICAL STUDIES WITH SUPERSONIC MOLECULAR BEAMS (CHE-8004307 A01)*; 12 MONTHS $70,082

BROOKS, PHILIP R, AND CURL, ROBERT F; *SPECTROSCOPY AND DYNAMICS OF REACTION COMPLEXES (CHE-8007651 A01)*; 12 MONTHS $90,000

BERRY, MICHAEL J; *NATURE AND DYNAMICS OF HIGHLY VIBRATIONALLY EXCITED POLYATOMIC MOLECULES (CHE-8008330 A01)*; 12 MONTHS $80,000

ENGEL, PAUL S; *ORGANIC FREE RADICAL AND EXCITED STATE CHEMISTRY (CHE-8013160 A01)*; 12 MONTHS $79,700

LEWIS, EDWARD S; *PURCHASE OF FOURIER TRANSFORM INFRARED SPECTROPHOTOMETER (CHE-8019748)*; 12 MONTHS $85,000

MARGRAVE, JOHN L; *SPECTROSCOPIC STUDIES OF THE INTERACTIONS OF METAL ATOMS AND SMALL METAL CLUSTERS WITH WATER, NH3, HF, CH4 AND OTHER LEWIS BASES (CHE-8110512)*; 12 MONTHS $80,000

TEXAS A & M UNIVERSITY

COTTON, FRANK A; *RESEARCH IN INORGANIC AND ORGANOMETALLIC CHEMISTRY (CHE-7700448 A03)*; 12 MONTHS $150,062

COTTON, FRANK A; *RESEARCH IN INORGANIC AND ORGANOMETALLIC CHEMISTRY (CHE-7700448 A04)*; $19,939

LAANE, JAAN; *CHARACTERIZATION OF NITROGEN OXIDE SPECIES AT LOW TEMPERATURES/CONFORMATIONAL DYNAMICS OF CYCLIC AND BICYCLIC MOLECULES (CHE-7826027 A03)*; 12 MONTHS $75,000

LAANE, JAAN; *CHARACTERIZATION OF NITROGEN OXIDE SPECIES AT LOW TEMPERATURES/CONFORMATIONAL DYNAMICS OF CYCLIC AND BICYCLIC MOLECULES (CHE-7826027 A04)*; $5,800

MACFARLANE, RONALD D; *PLASMA DESORPTION MASS SPECTROMETRY OF NON-VOLATILE MOLECULES (CHE-7904863 A02)*; 12 MONTHS $69,958

HALL, MICHAEL B; *THEORETICAL STUDIES ON THE ELECTRONIC AND MOLECULAR STRUCTURE OF INORGANIC AND ORGANOMETALLIC SYSTEMS (CHE-7920993 A01)*; 12 MONTHS $30,000

BASTIAANS, GLENN J; *STUDY OF THE VAPOR PHASE REACTIONS IMPORTANT TO ANALYTICAL ATOMIC SPECTROMETRY (CHE-7921584 A01)*; 12 MONTHS $45,800

BEVAN, JOHN W; *DYNAMICAL PROPERTIES OF HYDROGEN-BONDED SYSTEMS (CHE-7923237 A01)*; 12 MONTHS $55,000

BEVAN, JOHN W; *DYNAMICAL PROPERTIES OF HYDROGEN-BONDED SYSTEMS (CHE-7923237 A02)*; $4,763

SCHWEIKERT, EMILE A; *ANALYTICAL STUDIES WITH HIGH ENERGY ION BEAMS (CHE-7927157 A02)*; 12 MONTHS $59,000

GINGERICH, KARL A; *MASS SPECTROMETRIC AND MATRIX ISOLATION SPECTROSCOPIC INVESTIGATION OF HIGH TEMPERATURE SYSTEMS (CHE-8007549 A01)*; 12 MONTHS $75,000

GIAM, CHOO SENG; *PURCHASE OF COMPUTATIONAL EQUIPMENT (CHE-8015792)*; 12 MONTHS $118,000

YEAGER, DANNY L; *UNITARY EXPONENTAL OPERATOR MULTICONFIGUATIONAL SELF CONSISTENT FIELD HARTREE-FOCK (MCSCF) METHOD FOR THE ELECTRONIC STATES OF ATOMS AND MOLECULES (CHE-8023353)*; 12 MONTHS $35,000

FENDLER, JANOS H; *MEMBRANE MIMETIC CHEMISTRY (CHE-8023695)*; 12 MONTHS $128,600

LUNSFORD, JACK H; *GAS SOLID INTERACTIONS AT SEMICONDUCTOR SURFACES (CHE-8112893)*; 18 MONTHS $100,500

CLEARFIELD, ABRAHAM; *CATALYSIS BY CATIONS, COMPLEXES AND METALS SUPPORTED ON THE SURFACE OR BETWEEN THE LAYERS OF SYNTHETIC INORGANIC ION EXCHANGERS (CHE-8114613)*; 12 MONTHS $46,388

TEXAS CHRISTIAN UNIVERSITY

BARTLETT, PAUL D; *MECHANISMS OF ORGANIC REACTIONS (CHE-8104978)*; 12 MONTHS $64,000

ALBRIGHT, JOHN G; *MEASUTEMENT OF DIFFUSION COEFFICIENTS OF KHCO3 AND NAHCO3 IN WATER AT 25 DEGREES AND 37 DEGREES (CHE-8112575)*; 12 MONTHS $13,205

TEXAS TECH UNIVERSITY

KICE, JOHN L; *MECHANISMS OF REACTIONS OF ORGANOSELENIUM COMPOUNDS (CHE-7918877 A01)*; 12 MONTHS $33,200

QUADE, C R; *VIBRATION-ROTATION AND LARGE AMPLITUDE INTERNAL MOTION INTERACTIONS WITH CURVILINEAR INTERNAL COORDINATES (CHE-8020413)*; 12 MONTHS $14,351

SHINE, HENRY J; *ROLE OF CATION RADICALS IN ORGANIC REACTIONS (CHE-8026576)*; 12 MONTHS $79,300

UNIV OF TEXAS AT AUSTIN

DEWAR, MICHAEL J; *EXTENSION OF MNDO TO TRANSITION METALS (CHE-7803213 A03)*; 12 MONTHS $47,000

BARD, ALLEN J; *MECHANISMS OF ELECTRODE REACTIONS (CHE-7903729 A02)*; 12 MONTHS $76,588

LAGOW, RICHARD J; *POLYLITHIUM ORGANIC COMPOUNDS: A RESEARCH AREA OF EMERGING SIGNIFICANCE (CHE-7909214 A02)*; 12 MONTHS $49,800

COWLEY, ALAN H; *THE SYNTHESIS, CHARACTERIZATION, AND REACTIONS OF MAIN GROUP CATIONS, RADICALS, AND MOLECULES WITH UNUSUAL COORDINATION NUMBERS (CHE-7910155 A03)*; 12 MONTHS $74,233

FOX, MARYE A; *MECHANISMS OF PHOTOREACTIONS OF CARBANIONS (CHE-7915762 A01)*; 12 MONTHS $39,600

MCCORMICK, WILLIAM D, TURNER, JACK S, AND SWINNEY, HARRY L; *AN EXPERIMENTAL AND THEORETICAL INVESTIGATION OF THE BELOUSOV-ZHABOTINSKII REACTION (CHE-7923627 A01)*; 12 MONTHS $40,000

BARD, ALLEN J; *PHOTOELECTROCHEMISTRY AND HETEROGENEOUS PHOTOPROCESSES AT SEMICONDUCTORS (CHE-8000682 A01)*; 12 MONTHS $58,040

WHITE, JOHN M; *CHEMISORPTION AND CATALYSIS ON WELL CHARACTERIZED METAL SURFACES (CHE-8005107 A01)*; 12 MONTHS $80,000

PETTIT, ROWLAND; *TWO ASPECTS OF ORGANOMETALLIC CHEMISTRY: HOMOGENEOUS CATALYSIS AND NOVEL ORGANOMETALLIC STRUCTURES (CHE-8006107 A01)*; 12 MONTHS $110,705

FROMMHOLD, LOTHAR W; *EXPERIMENTAL DETERMINATION OF MOLECULAR CHARGE DENSITIES BY ELECTRON DIFFRACTION (CHE-8007940 A02)*; 12 MONTHS $53,000

LAGOWSKI, JOSEPH J; *THE CHEMISTRY OF MONATOMIC TRANSITION METAL ANIONS IN SOLUTION (CHE-8009214 A01)*; 12 MONTHS $51,500

COWLEY, ALAN H; *NATIONAL MAIN GROUP CHEMISTRY WORKSHOP (CHE-8106102)*; 12 MONTHS $34,717

HOLCOMBE, JAMES A; *FUNDAMENTAL STUDIES OF INTERFERENCE EFFECTS IN ELECTROTHERMALLY HEATED GRAPHITE (CHE-8107632)*; 12 MONTHS $84,104

WOODRUFF, WILLIAM H; *DYNAMICAL EVOLUTION OF MOLECULAR STRUCTURES IN SOLUTION. REACTION TRANSIENTS AND ELECTRONICALLY EXCITED STATES BY TIME-RESOLVED LASER SPECTROSCOPY (CHE-8109541)*; 6 MONTHS $68,300

WYATT, ROBERT E; *THEORETICAL STUDIES IN CHEMICAL DYNAMICS (CHE-8109576)*; 12 MONTHS $61,118

KYBA, EVAN P; *PHOSPHINO AND ARSINO MACROCYCLES. SYSTEMATIC MODIFICATION OF PROPERTIES OF TRANSITION METALS AND CATALYSIS (CHE-8113090)*; 16 MONTHS $65,200

UNIV OF TEXAS AT DALLAS

CALDWELL, RICHARD A; *STUDIES OF TRANSIENT TRIPLET BIRADICALS AND BIRADICALOID GEOMETRIES (CHE-7915228 A01);* 12 MONTHS $40,000

CANTRELL, CYRUS D; *INFLUENCE OF COHERENT OPTICAL PROPAGATION EFFECTS ON MULTIPLE-PHOTON EXCITATION OF POLYATOMIC MOLECULES (CHE-8017324*);* 24 MONTHS $30,000

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

RABALAIS, J WAYNE; *DEVELOPMENT OF SECONDARY ION MASS SPECTROMETRY (SIMS) FOR ANALYSIS OF CHEMICAL STRUCTURES AND BONDING (CHE-7915177 A01);* 12 MONTHS $50,000

KOURI, DONALD J; *FORMAL AND COMPUTATIONAL STUDIES IN THE QUANTUM THEORY OF MOLECULAR DYNAMICS (CHE-7919098 A01);* 12 MONTHS $48,190

KADISH, KARL M; *REDOX REACTIVITY OF METALLOPORPHYRINS (CHE-7921536 A01);* 12 MONTHS $56,696

RABALAIS, J WAYNE; *CHEMICAL REACTIONS OF ACTIVE ION BEAMS WITH SURFACES (DMR-8007036 A01*);* 16 MONTHS $6,600

KEVAN, LARRY; *STUDIES OF MOLECULAR AND RADICAL ORIENTATION ON SURFACES BY ELECTRON MAGNETIC RESONANCE (CHE-8016914);* 12 MONTHS $62,000

KEVAN, LARRY; *STUDIES OF MOLECULAR AND RADICAL ORIENTATION ON SURFACES BY ELECTRON MAGNETIC RESONANCE (CHE-8016914 A01);* $12,553

UTAH

BRIGHAM YOUNG UNIVERSITY

IZATT, REED M; *SELECTIVE COMPLEXING BY MULTIDENTATE MACROCYCLIC COMPOUNDS (CHE-8000059 A01);* 12 MONTHS $57,000

UNIVERSITY OF UTAH

MICHL, JOSEF; *PREPARATION AND PROPERTIES OF BIRADICAL-LIKE SPECIES (CHE-7827094 A02);* 12 MONTHS $89,000

MICHL, JOSEF; *PREPARATION AND PROPERTIES OF BIRADICAL LIKE SPECIES (CHE-7827094 A03);* $15,100

SIMONS, JOHN P; *SOLVATED ANIONS (CHE-7906845 A02);* 12 MONTHS $38,114

HARRIS, JOEL M; *LASER-INDUCED CALORIMETRY FOR TRACE ANALYSIS IN CONDENSED MEDIA (CHE-7913177 A02);* 12 MONTHS $63,000

ALLRED, EVAN L; *AZO AND CARBOCYCLIC COMPOUNDS, CARBON NMR SPECTROSCOPY, AND REACTION MECHANISMS (CHE-7913781 A02);* 11 MONTHS $55,000

GIDDINGS, J CALVIN; *SEPARATION OF COMPLEX MATERIALS BY FIELD-FLOW FRACTIONATION (FFF) (CHE-7919879 A01);* 12 MONTHS $120,000

PARRY, ROBERT W; *DICOORDINATE CATIONS OF PHOSPHORUS-SYNTHESIS CHARACTERIZATION, CHEMISTRY (CHE-7920313 A01);* 12 MONTHS $60,692

KECK, GARY E; *STUDIES ON THE APPLICATION OF ACYL-NITROSO COMPOUNDS TO C-N BOND FORMATION IN ORGANIC SYNTHESIS (CHE-7922026 A01);* 12 MONTHS $28,107

BENTRUDE, WESLEY G; *FREE-RADICAL AND PHOTOCHEMICAL REACTIONS OF ORGANOPHOSPHORUS SYSTEMS (CHE-7925056 A01);* 12 MONTHS $45,000

WALLING, CHEVES T; *ORGANIC REACTION MECHANISMS INVOLVING FREE RADICAL INTERMEDIATES (CHE-7926321 A01);* 12 MONTHS $75,000

GRANT, DAVID M, AND MICHL, JOSEF; *NMR OF ORGANIC SOLIDS AT CRYOGENIC TEMPERATURES (CHE-8000256 A01);* 12 MONTHS $49,416

BRECKENRIDGE, WILLIAM H; *STATE-TO-STATE CHEMISTRY AND ENERGY-TRANSFER USING THE LASER PUMP-AND-PROBE TECHNIQUE (CHE-8007033 A01);* 12 MONTHS $71,200

FUTRELL, JEAN H; *MOLECULAR DYNAMICS STUDY OF LOW ENERGY ELECTRON TRANSFER REACTIONS (CHE-8017794);* 12 MONTHS $33,152

GUILLORY, WILLIAM A; *LASER INDUCED PHYSICAL AND CHEMICAL PROCESSES (CHE-8023362);* 12 MONTHS $69,400

MICHL, JOSEF, AND ALLRED, EVAN L; *PURCHASE OF A MASS SPECTROMETER (CHE-8100424);* 12 MONTHS $79,000

STANG, PETER J; *PREPARATIVE USES OF UNSATURATED REACTIVE INTERMEDIATES (CHE-8107629);* 12 MONTHS $87,064

UTAH STATE UNIVERSITY

MC CULLOUGH, EDWARD A; *PARTIAL-WAVE METHODS IN MOLECULAR ELECTRONIC STRUCTURE CALCULATIONS (CHE-8113485);* 36 MONTHS $17,100

VERMONT

UNIVERSITY OF VERMONT

GEIGER, WILLIAM E; *ELECTROCHEMICAL STUDIES OF STRUCTURAL CONSEQUENCES OF ORGANOMETALLIC ELECTRON-TRANSFER REACTIONS (CHE-8004242 A01);* 12 MONTHS $80,602

FLANAGAN, TED B; *THERMODYNAMICS OF HYDROGEN ABSORPTION BY INTERMETALLIC COMPOUNDS (CHE-8024646);* 12 MONTHS $49,000

BUSHWELLER, C HACKETT, AND WELTIN, EUGEN E; *STEREODYNAMICS OF MOLECULAR SYSTEMS (CHE-8024931);* 12 MONTHS $46,953

VIRGINIA

COLLEGE OF WILLIAM AND MARY

DOVERSPIKE, L D; *SYMPOSIUM ON THE DYNAMICS OF MOLECULAR COLLISIONS; WILLIAMSBURG, VIRGINIA; JULY 23-24, 1981 (CHE-8102044);* 6 MONTHS $3,017

DELOS, JOHN B; *ELEMENTARY PROCESSES OF CHEMISTRY (CHE-8106759);* 12 MONTHS $41,015

JAMES MADISON UNIVERSITY

DEVORE, T C; *VIBRATIONAL INFRARED SPECTROSCOPY OF HIGH TEMPERATURE MOLECULES (CHE-8012913 A01);* 15 MONTHS $23,000

UNIVERSITY OF VIRGINIA

GRIMES, RUSSELL N; *CRYSTALLOGRAPHIC STUDIES OF METALLO-BORON AND HETEROBORON CAGE AND CLUSTER COMPOUNDS (CHE-7909948 A02);* 12 MONTHS $38,000

ANDREWS, LESTER S; *MATRIX SPECTROSCOPIC STUDIES OF MOLECULAR IONS AND CHEMICAL INTERMEDIATES (CHE-7910966 A02);* 12 MONTHS $48,388

RICHARDSON, FREDERICK S; *SPECTROSCOPIC PROBES OF MOLECULAR STEREOCHEMISTRY AND ELECTRONIC STRUCTURE (CHE-8004209 A01);* 12 MONTHS $68,770

SCHATZ, PAUL N; *MOLECULAR AND MAGNETOOPTICAL SPECTROSCOPY (CHE-8025608);* 12 MONTHS $130,000

VIRGINIA POLYTECHNIC INSTITUTE

WOLFE, JAMES F; *HETEROAROMATIC SRN1 REACTIONS (CHE-8022538);* 12 MONTHS $63,763

WASHINGTON

BOEING ENGINEERING AND CONSTRUCTION

LYTLE, FARREL W, AND SANDSTROM, DONALD R; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: EXAFS INVESTIGATION OF SUPPORT EFFECTS, CHEMISORPTION AND SURFACE DISORDER IN CATALYSIS (CHE-7918084 A01*);* 12 MONTHS $30,406

UNIVERSITY OF WASHINGTON

BORDEN, WESTON T; *SYNTHESIS AND STUDY OF SOME THEORETICALLY INTERESTING MOLECULES (CHE-7900949 A02*);* 12 MONTHS $75,013

DAVIDSON, ERNEST R; *QUANTUM THEORY OF MOLECULES (CHE-7923775 A01);* 12 MONTHS $62,000

RABINOVITCH, B S; *KINETIC STUDIES OF FUNDAMENTAL PROCESSES IN UNIMOLECULAR REACTIONS (CHE-7926288 A01);* 12 MONTHS $72,000

KOWALSKI, BRUCE R; *OPTIMAL METHODS OF MULTICOMPONENT CHEMICAL ANALYSIS (CHE-8004220);* 12 MONTHS $40,000

KWIRAM, ALVIN L; *ELUCIDATION OF STRUCTURE AND CONFORMATION OF RING SYSTEMS IN THE SOLID STATE BY EDNMR (CHE-8011428 A01);* 12 MONTHS $51,023

NORMAN, JOE G; *ELECTRONIC STRUCTURE OF TRANSITION METAL COMPOUNDS (CHE-8011976);* 12 MONTHS $20,000

REID, BRIAN R, AND KWIRAM, ALVIN L; *HIGH RESOLUTION NMR STUDIES OF BIOCHEMICAL SYSTEMS (PCM-8018053*);* 12 MONTHS $25,000

ENGEL, THOMAS; *ATOMIC AND MOLECULAR BEAM SCATTERING FROM SURFACES (CHE-8109067);* 12 MONTHS $173,000

WASHINGTON STATE UNIVERSITY

HUNT, JOHN P, ROUNDHILL, D M, AND DODGEN, HAROLD W; *HIGH PRESSURE NMR STUDIES ON PORPHYRIN AND ORGANOMETALLIC COMPOUNDS (CHE-7915792 A01);* 12 MONTHS $60,200

COOKE JR., MANNING P; *NEW APPROACHES TO CONJUGATE ADDITION REACTIONS (CHE-7920989 A01);* 12 MONTHS $26,600

MATTESON, DONALD S; *DIRECTED CHIRAL SYNTHESIS WITH BORONIC ESTERS (CHE-8025229);* 12 MONTHS $87,865

WISCONSIN

MARQUETTE UNIVERSITY

NAKAMOTO, KAZUO; *SPECTROSCOPIC STUDIES ON MOLECULAR OXYGEN ADDUCTS OF CO(II) CHELATES (CHE-7915169 A02);* 15 MONTHS $34,000

REGEN, STEVEN L; *SUPPORTED REAGENTS AND CHEMICAL DEVICES (CHE-8103083);* 12 MONTHS $39,763

UNIVERSITY OF WISCONSIN-MADISON

DAHL, LAWRENCE F; *STRUCTURAL SYSTEMATICS AND BONDING IN ORGANOMETALLIC COMPLEXES: NEW UNUSUAL METAL CLUSTERS AND CLUSTER CHEMISTRY (CHE-7850059 A02);* 12 MONTHS $129,500

LANGER, STANLEY H; *NEW CHEMICAL REACTOR APPLICATIONS OF CHROMATOGRAPHIC COLUMNS (CHE-7910129 A02);* 12 MONTHS $48,930

WRIGHT, JOHN C; *ANALYTICAL APPLICATIONS OF RARE EARTH LASER SPECTROSCOPY (CHE-7950005 A26);* 12 MONTHS $62,082

WIRTH, MARY J; *INVESTIGATIONS OF TWO-PHOTON SPECTROSCOPY AND ASSOCIATED RELAXATION PHENOMENA FOR ANALYTICAL CHEMISTRY (CHE-7950005 A27);* 12 MONTHS $41,849

WALTERS, JOHN P; *INVESTIGATION, USE AND CONTROL OF PHYSICAL AND CHEMICAL PHENOMENA IN SPECTROSCOPICALLY-USEFUL ELECTRICAL DISCHARGES (CHE-7950005 A28);* 12 MONTHS $104,138

CASEY, CHARLES P; *ORGANOMETALLIC REACTION MECHANISMS (CHE-7950005 A29);* 12 MONTHS $72,740

CERTAIN, PHILLIP R; *CONFERENCE ON 'NEW DIRECTIONS FOR THE MOLECULAR THEORY OF GASES AND LIQUIDS,' MADISON, WI; JUNE 18-20, 1981 (CHE-8022513);* 6 MONTHS $4,000

WEINHOLD, FRANK A; *QUANTUM MECHANICS OF ATOMS AND MOLECULES (CHE-8023004);* 12 MONTHS $46,000

FENSKE, RICHARD F; *MOLECULAR ORBITAL CALCULATIONS FOR TRANSITION METAL COMPLEXES (CHE-8024820);* 12 MONTHS $30,000

NELSEN, STEPHEN F; *RADICAL IONS AND RADICALS WITH SMALL PI SYSTEMS (CHE-8026111)*; 12 MONTHS $96,900

WEST, ROBERT; *POLYQUINOCYCLOALKANES AND OXOCARBONS (CHE-8026714)*; 12 MONTHS $73,171

ZIMMERMAN, HOWARD E; *MECHANISTIC AND EXPLORATORY ORGANIC PHOTOCHEMISTRY (CHE-8100716)*; 12 MONTHS $138,300

TROST, BARRY M; *NEW APPROACHES FOR SELECTIVITY IN THE SYNTHESIS OF ORGANIC COMPOUNDS (CHE-8107215)*; 12 MONTHS $128,901

TROST, BARRY M; *NEW APPROACHES FOR SELECTIVITY IN THE SYNTHESIS OF ORGANIC COMPOUNDS (CHE-8107215 A01)*; $11,210

CERTAIN, PHILLIP R; *ATOMIC AND MOLECULAR RESONANCE STATES (CHE-8107628)*; 12 MONTHS $52,030

GOERING, HARLAN L; *ALKYLATION REACTIONS WITH ORGANOMETALLIC COMPOUNDS (CHE-8108535)*; 6 MONTHS $42,600

GAINES, DONALD F; *METAL- AND NONMETAL-BORON CLUSTERS; SYNTHETIC AND MECHANISTIC STUDIES (CHE-8109162)*; 12 MONTHS $63,800

REICH, HANS J; *SYNTHETIC APPLICATIONS OF ORGANOMETALLOIDS (CHE-8111038)*; 12 MONTHS $56,832

TROST, BARRY M; *PURCHASE OF NUCLEAR MAGNETIC RESONANCE INSTRUMENTATION (CHE-8111121)*; 12 MONTHS $150,000

CURTISS, CHARLES F; *ROTATIONAL EXCITATION CROSS SECTIONS AND TRANSPORT PROPERTIES OF GASES (CHE-8111174)*; 12 MONTHS $44,542

WOODS, R CLAUDE; *MICROWAVE SPECTROSCOPY OF IONS AND OTHER TRANSIENT SPECIES (CHE-8111175)*; 12 MONTHS $53,000

ELLIS, ARTHUR B; *PHOTOCHEMISTRY AND ELECTROCHEMISTRY OF ORGANOMETALLIC LANTHANIDE AND ACTINIDE COMPLEXES (CHE-8111177)*; 12 MONTHS $40,000

EVANS, DENNIS H; *MECHANISTIC AND ANALYTICAL STUDIES IN ORGANIC ELECTROCHEMISTRY (CHE-8111421)*; 12 MONTHS $105,116

TAYLOR, JAMES W; *KINETIC ISOTOPE EFFECTS AS A PROBE TO CHEMICAL REACTIVITY (CHE-8111665)*; 12 MONTHS $38,800

VEDEJS, EDWIN; *MACROLIDE AGLYCONES; MACROCYCLE CHEMISTRY (CHE-8113026)*; 12 MONTHS $76,966

WHITLOCK, HOWARD W; *MOLECULES OF HYDROPHOBIC CAVITIES (CHE-8115437)*; 12 MONTHS $54,646

UNIVERSITY OF WISCONSIN-MILWAUKEE

COOK, JAMES M. AND WEISS, ULRICH; *GENERAL METHOD FOR THE SYNTHESIS OF POLYCYCLOPENTANOID COMPOUNDS (CHE-7910930 A02)*; 12 MONTHS $32,858

HALL, W KEITH; *RELATIONSHIPS BETWEEN SURFACE CHEMISTRY AND CATALYSIS: MOLYBDENA-ALUMINA AND RELATED SYSTEMS (CHE-8019309)*; 12 MONTHS $94,524

WYOMING

UNIVERSITY OF WYOMING

BARDEN, ROLAND E; *PURCHASE OF A 300 MHZ NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8026553)*; 12 MONTHS $115,000

MATHEMATICAL SCIENCES

ALABAMA

AUBURN UNIVERSITY MAIN CAMPUS

HILL, PAUL; *ABELIAN GROUPS AND VALUATED VECTOR SPACES (MCS-8102470)*; 24 MONTHS $43,000

UNIVERSITY OF ALABAMA

CASAZZA, PETER G; *PROJECTIONS ON BANACH SPACES WITH UNCONDITIONAL BASES (MCS-8102238)*; 24 MONTHS $24,853

UNIVERSITY OF ALABAMA IN BIRMINGHAM

OVERSTEEGEN, LEX G; *A STUDY OF ATRIODIC TREE-LIKE CONTINUA (MCS-8104866)*; 24 MONTHS $19,845

ARIZONA

ARIZONA STATE UNIVERSITY

BUSTOZ, JOAQUIN, AND ISMAIL, MOURAD; *APPLICATIONS OF ORTHOGONAL POLYNOMIALS (MCS-8002539 A01)*; 12 MONTHS $28,539

GOLUBITSKY, MARTIN; *APPLICATIONS OF SINGULARITY THEORY (MCS-8101580)*; 12 MONTHS $15,657

KEYFITZ, BARBARA L; *COMBUSTION PROBLEMS AND REACTION-DIFFUSION EQUATIONS (MCS-8103441)*; 12 MONTHS $14,846

UNIVERSITY OF ARIZONA

GREENLEE, WILFRED M; *SINGULAR PERTURBATION AND APPROXIMATION OF EIGENVALUES (MCS-7902663 A01)*; 24 MONTHS $36,980

FIFE, PAUL C; *THE MATHEMATICS OF REACTING AND DIFFUSING SYSTEMS (MCS-7904443 A02)*; 12 MONTHS $18,784

GROEMER, HELMUT; *COVERING PROBLEMS FOR CONVEX SETS (MCS-8001578 A01)*; 12 MONTHS $18,000

NEWMAN, CHARLES M; *TOPICS IN STATISTICAL MECHANICS (MCS-8019384)*; 12 MONTHS $16,750

FLASCHKA, HERMANN, AND MCLAUGHLIN, DAVID W; *THEORY AND APPLICATION OF INVERSE SPECTRAL TRANSFORM (MCS-8102748)*; 12 MONTHS $18,732

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

LUXEMBURG, W A J; *FUNCTIONAL ANALYSIS AND NONSTANDARD ANALYSIS (MCS-7822828 A02)*; 12 MONTHS $24,174

ASCHBACHER, MICHAEL; *GROUP THEORY (MCS-8001603 A01)*; 12 MONTHS $17,031

HALL, MARSHALL, RYSER, HERBERT J, AND WILSON, RICHARD M; *RESEARCH IN ALGEBRA AND COMBINATORIAL THEORY (MCS-8020755)*; 24 MONTHS $101,689

WOODIN, W HUGH; *SET THEORY (MCS-8021468)*; 12 MONTHS $11,514

COHEN, DONALD S, AND KELLER, HERBERT B; *DIFFERENTIAL EQUATIONS AND CONTINUUM MECHANICS (MCS-8101878)*; 12 MONTHS $57,366

LORDEN, GARY; *SEQUENTIAL ANALYSIS (MCS-8103593)*; 24 MONTHS $39,596

SIMON, BARRY M; *MATHEMATICAL PHYSICS (MCS-8119979)*; 10 MONTHS $45,810

SMITH, BRENT; *SOME INEQUALITIES FOR MEASURE NORMS (MCS-8120070)*; 21 MONTHS $15,946

CALIFORNIA STATE UNIVERSITY, LONG BEACH

BACHAR, J M; *CONFERENCE ON COMMUTATIVE RADICAL BANACH ALGEBRAS AND AUTOMATIC CONTINUITY; LONG BEACH, CALIFORNIA; JULY 12-31, 1981 (MCS-8100676)*; 12 MONTHS $5,000

CLAREMONT GRADUATE SCHOOL

JAMES, ROBERT C; *GEOMETRY OF NORMED LINEAR SPACES (MCS-8103390)*; 12 MONTHS $16,576

HARVEY MUDD COLLEGE

BUSENBERG, STAVROS N; *RESEARCH CONFERENCE ON THE DYNAMICS OF ORDINARY DIFFERENTIAL EQUATIONS AND APPLICATIONS; HARVEY MUDD COLLEGE, CLAREMONT, CALIFORNIA; JANUARY 11-12, 1981 (MCS-8022522)*; 3 MONTHS $3,840

INDIVIDUAL AWARD

MORTON, R PATRICK; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114169)*; 12 MONTHS $22,000

JACOB, WILLIAM B; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114172)*; 12 MONTHS $22,000

MATHEMATICAL SCIENCES RESEARCH INSTITUTE INC

CHERN, SHIING-SH, MOORE, CALVIN C, AND SINGER, ISADORE M; *A MATHEMATICAL SCIENCES RESEARCH INSTITUTE; PHASE I (MCS-7924384)*; 6 MONTHS $150,000

CHERN, SHIING-SH, MOORE, CALVIN C, AND SINGER, ISADORE M; *A MATHEMATICAL SCIENCES RESEARCH INSTITUTE: PHASE II (MCS-8120790)*; 12 MONTHS $225,518

POMONA COLLEGE

COOKE, KENNETH L; *DIFFERENTIAL EQUATIONS AND EPIDEMIOLOGY (MCS-8104837)*; 12 MONTHS $18,412

STANFORD UNIVERSITY

DANTZIG, GEORGE B, COTTLE, RICHARD W, AND HILLIER, FREDERICK S; *OPTIMIZATION THEORY (MCS-7681259 A04)*; 12 MONTHS $68,600

SIU, YUM-TONG; *SEVERAL COMPLEX VARIABLES AND ANALYTIC SPACES (MCS-7904476 A02)*; 12 MONTHS $25,238

SAMELSON, HANS, AND MILGRAM, R J; *ALGEBRA AND TOPOLOGY (MCS-7906085 A02)*; 12 MONTHS $59,200

KELLER, JOSEPH B; *POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-7918065 A02)*; $22,000

KARLIN, SAMUEL; *TOPICS IN ANALYSIS, TOTAL POSITIVITY AND RELATED MATHEMATICAL MODELS IN BIOLOGY (MCS-7924310 A01*)*; 12 MONTHS $41,346

CHUNG, KAI L; *PROBABILITY METHODS IN POTENTIAL THEORY AND ANALYSIS (MCS-8001540 A01)*; 12 MONTHS $27,559

PHILLIPS, RALPH S; *SCATTERING THEORY (MCS-8001943 A01)*; 12 MONTHS $26,654

GILBARG, DAVID; *CLASSICAL AND APPLIED ANALYSIS (MCS-8022367)*; 12 MONTHS $79,423

EFRON, BRADLEY, AND STEIN, CHARLES M; *STATISTICAL THEORY AND METHODOLOGY (MCS-8024649)*; 12 MONTHS $106,231

OLKIN, INGRAM; *MULTI-DIMENSIONAL STATISTICAL ANALYSIS (MCS-8104362)*; 12 MONTHS $62,603

FEFERMAN, SOLOMON; *MATHEMATICAL LOGIC AND THE FOUNDATIONS OF MATHEMATICS (MCS-8104869)*; 12 MONTHS $62,000

ORNSTEIN, DONALD S; *PROBABILITY AND ERGODIC THEORY (MCS-8107092)*; 12 MONTHS $159,828

OSSERMAN, ROBERT; *GEOMETRY OF DIFFERENTIAL MANIFOLDS AND ASSOCIATED PARTIAL DIFFERENTIAL EQUATIONS (MCS-8107911)*; 12 MONTHS $39,000

COHEN, PAUL J; *FUNCTIONAL ANALYSIS AND NUMBER THEORY (MCS-8109181)*; 12 MONTHS $24,552

SWITZER, PAUL; *THEORY, METHODS AND APPLICATIONS OF SPATIAL DISCRIMINANT ANALYSIS (MCS-8109584)*; 12 MONTHS $17,318

GOLUB, GENE H; *WORKSHOP ON COMPUTATIONAL PROBLEMS IN COMPLEX ANALYSIS, PALO ALTO, CALIFORNIA, AUGUST 31 -- SEPTEMBER 4, 1981 (MCS-8113489*)*; 6 MONTHS $2,600

UNIVERSITY OF CALIFORNIA, BERKELEY

KIRBY, ROBION C; *ALGEBRAIC AND DIFFERENTIAL TOPOLOGY (MCS-7724109 A03)*; 12 MONTHS $31,000

KIRBY, ROBION C; *GROUP-THEORETIC STUDIES OF THE MAPPING CLASS GROUP (MCS-7724103 A04)*; $10,200

PITMAN, JAMES W; *MATHEMATICAL STATISTICS INCLUDING RELATED PROBABILITY AND COMPUTER SCIENCE (MCS-7825301 A02)*; 12 MONTHS $77,000

KOBAYASHI, SHOSHICHI, AND WOLF, JOSEPH A; *LIE GROUPS AND DIFFERENTIAL GEOMETRY (MCS-7902522 A02)*; 12 MONTHS $68,600

KATO, TOSIO, AND CORDES, H O; *PARTIAL DIFFERENTIAL EQUATIONS AND OPERATOR THEORY (MCS-7902578 A02)*; 12 MONTHS $43,700

SOLOVAY, ROBERT M; *TOPICS IN SET THEORY (MCS-7906077 A02)*; 12 MONTHS $25,026

SATAKE, ICHIRO; *ALGEBRAIC GROUPS AND ABELIAN VARIETIES (MCS-7906626 A03)*; 12 MONTHS $16,900

VAUGHT, ROBERT L, AND SILVER, JACK H; *FOUNDATIONS OF MATHEMATICS (MCS-7907774 A02)*; 12 MONTHS $56,200

VAUGHT, ROBERT L; *INFINITARY COMBINATORICS AND REAL NUMBERS (MCS-7907774 A03)*; $9,800

CHENG, CHING-SHU; *OPTIMAL DESIGN (MCS-7908502 A02)*; 12 MONTHS $9,559

ROSENLICHT, MAXWELL A; *ALGEBRAIC GEOMETRY AND ALGEBRAIC STRUCTURES (MCS-8002317 A01)*; 12 MONTHS $84,986

WOLF, JOSEPH A; *WINTER RESEARCH INSTITUTE ON GEOMETRIC QUANTIZATION AND REPRESENTATION OF LIE GROUPS, BANFF, JANUARY 2-8, 1981 (MCS-8002506)*; 12 MONTHS $7,200

FREEDMAN, DAVID, AND DUBINS, LESTER E; *CHANCE PROCESSES (MCS-8002545 A01)*; 12 MONTHS $44,171

LE CAM, LUCIEN, AND MILLAR, PRESSLEY W; *PROBABILITY AND STATISTICS (MCS-8002698 A01)*; 12 MONTHS $66,810

NONE,; *PROBABILITY AND STATISTICS (MCS-8002698 A02)*; $8,915

LAM, T Y; *FIELD THEORY AND QUADRATIC FORMS (MCS-8002854 A01)*; 12 MONTHS $13,100

THOMAS, P EMERY; *TOPOLOGY (MCS-8002858 A01)*; 12 MONTHS $100,000

KLASS, MICHAEL J; *SUMS OF INDEPENDENT RANDOM ELEMENTS (MCS-8004022 A01)*; 12 MONTHS $23,120

MILLER, KEITH; *NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS (MCS-8005784 A01)*; 12 MONTHS $21,925

ARVESON, WILLIAM B; *NONLINEAR SPECTRAL THEORY (MCS-8006264 A01)*; 12 MONTHS $13,800

NEWELL, GORDON F; *APPLICATIONS OF MATHEMATICS TO TRANSPORTATION STUDIES (MCS-8007393 A01)*; 12 MONTHS $17,400

MOORE, CALVIN C, AND RIEFFEL, MARC A; *FUNCTIONAL ANALYSIS (MCS-8010723 A01)*; $11,200

MOORE, CALVIN C, AND RIEFFEL, MARC A; *FUNCTIONAL ANALYSIS (MCS-8010723 A02)*; 12 MONTHS $44,000

SINGER, ISADORE M; *GEOMETRY OF QUANTUM CHROMODYNAMICS (MCS-8012223)*; 12 MONTHS $5,083

SINGER, ISADORE M, AND CHERN, SHIING-SH; *DIFFERENTIAL GEOMETRY (MCS-8023556)*; 12 MONTHS $150,000

OGUS, ARTHUR; *P-ADIC COHOMOLOGY (MCS-8023848)*; 12 MONTHS $9,870

ROSENLICHT, MAXWELL A; *ASYMPTOTIC ALGEBRA (MCS-8102055)*; 12 MONTHS $17,050

SMALE, STEPHEN; *GLOBAL ANALYSIS AND APPLICATIONS (MCS-8102262)*; 12 MONTHS $65,100

DOKSUM, KJELL A; *STATISTICAL PROBLEMS IN CONNECTION WITH MODEL SELECTION (MCS-8102349)*; 12 MONTHS $13,346

MAJDA, ANDREW J; *THE PARTIAL DIFFERENTIAL EQUATIONS OF FLUID DYNAMICS AND THEIR NUMERICAL APPROXIMATION (MCS-8102360*)*; 36 MONTHS $41,600

PROTTER, MURRAY H, AND HALD, OLE H; *PARTIAL DIFFERENTIAL EQUATIONS WITH APPLICATIONS TO EIGENVALUE PROBLEMS, INVERSE PROBLEMS, AND REACTIONDIFFUSION PROCESSES (MCS-8102502)*; 12 MONTHS $38,776

MCKENZIE, RALPH; *MODEL THEORY AND UNIVERSAL ALGEBRA (MCS-8103455)*; 24 MONTHS $35,000

GALE, DAVID; *MATHEMATICAL ECONOMICS AND GAME THEORY (MCS-8104259)*; 12 MONTHS $29,200

FELDMAN, JACOB; *TOPICS IN ANALYSIS, PROBABILITY AND MATHEMATICAL PHYSICS (MCS-8107086*)*; 12 MONTHS $65,500

OSTER, GEORGE F; *THE MECHANICS OF EPITHELIAL MORPHOGENESIS (MCS-8110537*)*; 24 MONTHS $37,000

UNIVERSITY OF CALIFORNIA, DAVIS

KREITH, KURT; *QUALITATIVE THEORY OF HYPERBOLIC DIFFERENTIAL EQUATIONS (MCS-8002130 A01)*; 12 MONTHS $15,551

BLUM, J R; *PROBLEMS IN DECISION THEORY, STATISTICAL INFERENCE AND ERGODIC THEORY (MCS-8002179 A01)*; 12 MONTHS $11,146

KRENER, ARTHUR J; *NONLINEAR SYSTEMS UNDER FEEDBACK (MCS-8003263 A01*)*; 12 MONTHS $7,800

BHATTACHARYA, P K; *ASYMPTOTIC METHODS OF STATISTICS (MCS-8101976)*; 12 MONTHS $16,006

UNIVERSITY OF CALIFORNIA, IRVINE

TUCKER, HOWARD G; *LIMIT THEOREMS AND LIMIT DISTRIBUTIONS (MCS-8001583 A01)*; 12 MONTHS $15,214

EKLOF, PAUL C; *LOGIC AND ALGEBRA (MCS-8003591 A01)*; 12 MONTHS $12,700

UNIVERSITY OF CALIFORNIA, LOS ANGELES

OSHER, STANLEY J; *APPLIED PARTIAL DIFFERENTIAL EQUATIONS AND NUMERICAL ANALYSIS (MCS-7801252 A02)*; $35,153

MARTIN, DONALD A, AND MOSCHOVAKIS, YIANNIS N; *RECURSION THEORY AND SET THEORY (MCS-7802989 A03)*; 12 MONTHS $76,166

MARTIN, DONALD A, AND MOSCHOVAKIS, YIANNIS N; *RECURSION THEORY AND SET THEORY (MCS-7802989 A04)*; $9,211

GEOFFRION, ARTHUR M, AND GRAVES, GLENN W; *OPTIMIZATION OF LARGE-SCALE SYSTEMS (MCS-7822674 A02*)*; 12 MONTHS $17,500

ELMAN, RICHARD S; *ALGEBRAIC THEORY OF QUADRATIC FORMS (MCS-7827001 A02)*; 24 MONTHS $31,565

SCHACHER, MURRAY M; *RING THEORY AND NUMBER THEORY (MCS-7827582 A01)*; 24 MONTHS $27,743

GREENE, ROBERT E, AND O'NEILL, BARRETT; *DIFFERENTIAL GEOMETRY (MCS-7901062 A02)*; 12 MONTHS $60,900

STRAUS, ERNST G; *ALGEBRA, NUMBER THEORY, AND COMBINATORICS (MCS-7903162 A02)*; 12 MONTHS $17,520

VARADARAJAN, V S; *HARMONIC ANALYSIS ON SEMISIMPLE LIE GROUPS (MCS-7903184 A02)*; 12 MONTHS $16,507

VARADARAJAN, V S; *HARMONIC ANALYSIS ON SEMISIMPLE LIE GROUPS (MCS-7903184 A03)*; $9,085

REDHEFFER, RAYMOND M; *PARABOLIC SYSTEMS CONTAINING FUNCTIONALS (MCS-7903544 A01)*; 24 MONTHS $37,419

CURTIS, PHILIP C; *AUTOMATIC CONTINUITY AND RADICAL BANACH ALGEBRAS (MCS-8002557 A01)*; 12 MONTHS $28,999

LIGGETT, THOMAS M; *STATISTICS AND INFINITE PARTICLE SYSTEMS (MCS-8002732 A02*)*; 12 MONTHS $71,817

GAMELIN, THEODORE W; *FUNCTIONAL ANALYSIS AND FUNCTION THEORY (MCS-8002955 A01)*; 12 MONTHS $41,200

GAMELIN, THEODORE W; *FUNCTIONAL ANALYSIS AND FUNCTION THEORY (MCS-8002955 A02)*; $11,443

EDWARDS, ROBERT D, AND HATCHER, ALLEN E; *GEOMETRY AND TOPOLOGY OF MANIFOLDS (MCS-8003571 A01)*; 12 MONTHS $29,011

TAKESAKI, MASAMICHI; *OPERATOR ALGEBRAS (MCS-8101589)*; 12 MONTHS $50,954

RALSTON, JAMES V; *HYPERBOLIC PARTIAL DIFFERENTIAL EQUATIONS AND SCATTERING THEORY (MCS-8101656)*; 12 MONTHS $33,405

GIESEKER, DAVID; *ALGEBRAIC GEOMETRY (MCS-8101694)*; 24 MONTHS $27,743

CANTOR, DAVID G; *COMBINATORICS, ALGEBRA, AND NUMBER THEORY (MCS-8102519)*; 12 MONTHS $46,049

ARRATIA, RICHARD; *INFINITE PARTICLE SYSTEMS (MCS-8102529)*; 12 MONTHS $7,074

LANGE, CHARLES; *SINGULAR PERTURBATION ANALYSIS OF BOUNDARY VALUE PROBLEMS (MCS-8104258)*; 12 MONTHS $5,600

UNIVERSITY OF CALIFORNIA, RIVERSIDE

BLOCK, RICHARD E; *LIE ALGEBRAS AND RELATED TOPICS (MCS-7903161 A02)*; 12 MONTHS $15,702

RATLIFF, LOUIS J; *ON VARIOUS CHAIN CONDITIONS FOR PRIME IDEALS (MCS-8001597 A01)*; 12 MONTHS $14,837

UNIVERSITY OF CALIFORNIA, SAN DIEGO

ENRIGHT, THOMAS J; *A STUDY OF HARISH-CHANDRA MODULES (MCS-7902896 A03)*; 12 MONTHS $11,920

TERRAS, AUDREY A; *MATRIX ANALYSIS, AUTOMORPHIC FORMS, AND APPLICATIONS TO NUMBER THEORY (MCS-7902481 A01)*; 24 MONTHS $22,917

RODIN, BURTON; *CONFORMAL MAPPING, EXTREMAL LENGTH AND RIEMANN SURFACES (MCS-7903018 A02)*; $6,498

WADSWORTH, ADRIAN R; *QUADRATIC FORMS AND THE BRAUER GROUP OF A FIELD (MCS-7903179 A01)*; 24 MONTHS $20,320

GARSIA, ADRIANO M; *COMBINATORICS (MCS-7903406 A02)*; 12 MONTHS $27,747

OLSHEN, RICHARD A; *INFERENCE ON VECTOR DATA (MCS-7906228 A01)*; 24 MONTHS $40,028

GETOOR, RONALD K; *MARKOV PROCESSES AND RELATED TOPICS (MCS-7923922 A01)*; 12 MONTHS $31,812

HELTON, J WILLIAM; *OPERATOR THEORY MOTIVATED BY THEORETICAL ENGINEERING AND BY PARTIAL DIFFERENTIAL EQUATIONS (MCS-8001698 A01*)*; 12 MONTHS $16,500

ANDERSON, DONALD W; *ALGEBRAIC TOPOLOGY: HOMOTOPY THEORY AND LOW DIMENSIONAL SURGERY (MCS-8004661 A01)*; 12 MONTHS $39,000

EVANS, RONALD; *SELBERG'S CHARACTER SUMS (MCS-8101860)*; 24 MONTHS $18,550

HAFF, LEONARD R; *ESTIMATION OF THE MULTIVARIATE NORMAL COVARIANCE MATRIX WITH APPLICATIONS (MCS-8101937)*; 12 MONTHS $9,849

FITZGERALD, CARL; *PROPERTIES OF UNIVALENT FUNCTIONS (MCS-8103380)*; 12 MONTHS $30,616

RODIN, BURTON; *CONFORMAL MAPPING, EXTREMAL LENGTH AND RIEMANN SURFACES (MCS-8103458)*; 12 MONTHS $38,000

HELTON, J WILLIAM; *CONFERENCE ON FUNCTIONAL ANALYSIS, SANTA MONICA, CALIFORNIA, AUGUST 2-4, 1981 (MCS-8104816*)*; 6 MONTHS $9,903

RODIN, BURTON; *REGIONAL CONFERENCE IN HYPERBOLIC GEOMETRY, 3-DIMENSIONAL TOPOLOGY, AND KLEINIAN GROUPS; SAN DIEGO, CALIFORNIA; AUGUST 24-29, 1981 (MCS-8104821)*; 6 MONTHS $14,726

RODIN, BURTON; *REGIONAL CONFERENCE IN HYPERBOLIC GEOMETRY, 3-DIMENSIONAL TOPOLOGY, AND KLEINIAN GROUPS, SAN DIEGO, CALIFORNIA, AUGUST 24-29, 1981 (MCS-8104821 A01)*; $5,000

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

FAN, KY; *FUNCTIONAL ANALYSIS (MCS-7903083 A02)*; 12 MONTHS $19,460

BRUCKNER, ANDREW M; *PROBLEMS CONCERNING THE DIFFERENTIATION OF REAL FUNCTIONS (MCS-8001787 A01)*; 12 MONTHS $15,774

MERRIS, RUSSELL, AND MARCUS, MARVIN; *RESEARCH CONFERENCE ON MULTILINEAR ALGEBRA, SANTA BARBARA, CALIFORNIA, MARCH 25-APRIL 3, 1981 (MCS-8018843)*; 6 MONTHS $7,550

SCHARLEMANN, MARTIN G; *LOW-DIMENSIONAL MANIFOLDS (MCS-8101731)*; 24 MONTHS $22,600

BACHMUTH, SEYMOUR; *AUTOMORPHISMS OF SOLVABLE GROUPS AND POLYNOMIAL RINGS (MCS-8101904)*; 12 MONTHS $24,209

MELVIN, PAUL; *TRANSFORMATION GROUPS ON 3 AND 4-MANIFOLDS (MCS-8102014)*; 24 MONTHS $18,400

NEWMAN, MORRIS; *INTEGRAL MATRICES (MCS-8102224)*; 12 MONTHS $9,657

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

GUCKENHEIMER, JOHN, ABRAHAM, RALPH, FISCHER, ARTHUR, AND TROMBA, ANTHONY J; *GLOBAL ANALYSIS (MCS-7908002 A02)*; 12 MONTHS $55,000

WIDOM, HAROLD; *PSEUDODIFFERENTIAL OPERATORS (MCS-8002330 A01)*; 12 MONTHS $18,341

WIDOM, HAROLD; *RESEARCH IN PSEUDODIFFERENTIAL OPERATORS (MCS-8002330 A02)*; $9,000

MASON, GEOFFREY; *FINITE GROUP THEORY AND APPLICATIONS (MCS-8101718)*; 12 MONTHS $9,885

COOPERSTEIN, BRUCE; *FINITE GROUPS OF LIE TYPE (MCS-8101941)*; 24 MONTHS $20,525

UNIVERSITY OF SOUTHERN CALIFORNIA

HARRIS, THEODORE E; *STOCHASTIC PROCESSES (MCS-7900694 A02)*; 12 MONTHS $19,555

MONTGOMERY, SUSAN; *AUTOMORPHISM GROUPS OF ASSOCIATIVE RINGS (MCS-8101730)*; 24 MONTHS $24,864

BRUCK, RONALD E, AND REICH, SIMEON; *NONLINEAR EVOLUTION SYSTEMS IN INFINITE DIMENSIONAL BANACH SPACES (MCS-8102086)*; 12 MONTHS $22,661

BRENNAN, MICHAEL; *RANDOM PARTITIONS OF THE UNIT INTERVAL (MCS-8102730)*; 12 MONTHS $9,026

COLORADO

INDIVIDUAL AWARD

KATH, WILLIAM L; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114171)*; 12 MONTHS $22,000

ROCKY MOUNTAIN MATHEMATICS CONSORTIUM INC

COOK, W L; *CONFERENCE ON STATISTICAL DISTRIBUTIONS; IDAHO STATE UNIV.; POCATELLO, IDAHO; APRIL 2-3, 1981 (MCS-8104274)*; 6 MONTHS $3,399

UNIVERSITY OF COLORADO AT BOULDER

TAYLOR, WALTER, AND MYCIELSKI, JAN; *FOUNDATIONS OF MATHEMATICS (MCS-7900907 A01)*; 24 MONTHS $57,240

SATHER, DUANE P; *APPLICATIONS OF PARTIAL DIFFERENTIAL EQUATIONS AND GROUP REPRESENTATIONS TO NONLINEAR SHELL THEORY (MCS-7923650 A01*)*; 12 MONTHS $6,762

BAGGETT, LAWRENCE W; *LOCALLY COMPACT GROUPS (MCS-8002485 A01)*; 12 MONTHS $22,500

HOLLEY, RICHARD, AND STROOCK, DANIEL W; *DIFFUSION PROCESSES AND RELATED TOPICS (MCS-8007300 A01)*; 12 MONTHS $26,958

LUNDELL, ALBERT T; *KLEINIAN GROUPS, HYPERBOLIC GEOMETRY, AND THREE-DIMENSIONAL TOPOLOGY (MCS-8015705)*; 12 MONTHS $95,000

SCHMIDT, WOLFGANG M; *DIOPHANTINE APPROXIMATION AND ARITHMETIC OF POLYNOMIALS (MCS-8015356)*; 24 MONTHS $35,256

RAMSAY, ARLAN; *LOCALLY COMPACT GROUPS (MCS-8102035)*; 12 MONTHS $12,646

CONNECTICUT

SIAM INSTITUTE FOR MATH & SOCIETY (SIMS)

THOMSEN, DONALD L; *STATISTICS AND ENVIRONMENTAL FACTORS IN HEALTH (MCS-7907549 A02)*; 12 MONTHS $34,566

UNIVERSITY OF CONNECTICUT

LERMAN, MANUEL; *RECURSION THEORY (MCS-7801849 A01)*; 24 MONTHS $34,655

TOLIMIERI, RICHARD; *HARMONIC ANALYSIS OF 2 STEP NILMANIFOLDS (MCS-7903818 A01)*; 24 MONTHS $27,583

SCHMERL, JAMES H; *MATHEMATICAL LOGIC (MCS-7905028 A01)*; 24 MONTHS $28,588

BLEI, RON C; *FRACTIONAL PRODUCTS OF SETS AND CERTAIN NORMS IN HARMONIC ANALYSIS (MCS-8002716 A01)*; $15,200

WESLEYAN UNIVERSITY

FIELDSTEEL, ADAM; *ERGODIC THEORY: FACTOR STRUCTURE (MCS-8102670)*; 24 MONTHS $16,000

YALE UNIVERSITY

BEALS, RICHARD W; *PARTIAL DIFFERENTIAL EQUATIONS AND ANALYSIS (MCS-7802945 A03)*; $6,990

SELIGMAN, GEORGE B; *ALGEBRA AND GROUP THEORY (MCS-7904473 A03)*; $8,053

SELIGMAN, GEORGE B; *ALGEBRA AND GROUP THEORY (MCS-7904473 A04)*; 12 MONTHS $90,252

MOSTOW, GEORGE D; *THEORY OF LIE GROUPS (MCS-7905018 A03)*; $19,977

MOSTOW, GEORGE D; *THEORY OF LIE GROUPS (MCS-7905018 A04)*; 12 MONTHS $101,090

LANG, SERGE; *NUMBER THEORY AND ELLIPTIC CURVES (MCS-8002100 A01)*; 12 MONTHS $29,870

LANG, SERGE; *NUMBER THEORY AND ELLIPTIC CURVES (MCS-8002100 A02)*; $8,784

MASSEY, WILLIAM S; *ALGEBRAIC AND DIFFERENTIAL TOPOLOGY (MCS-8002332 A01)*; 12 MONTHS $88,400

MACINTYRE, ANGUS J; *LOGIC AND NUMBER THEORY (MCS-8002717 A01)*; 12 MONTHS $60,200

FEIT, WALTER; *ALGEBRAIC GROUPS (MCS-8006789)*; 12 MONTHS $11,075

SELIGMAN, GEORGE B; *CONFERENCE IN ALGEBRA, ON THE OCCASION OF THE RETIREMENT OF NATHAN JACOBSON, NEW HAVEN, CONNECTICUT, JUNE 2-5, 1981 (MCS-8019614)*; 12 MONTHS $15,000

HARTIGAN, JOHN A; *CLUSTERING ALGORITHMS (MCS-8102280*)*; 12 MONTHS $25,000

MOSTOW, GEORGE D; *IRREDUCIBLE REPRESENTATIONS OF AFFINE LIE ALGEBRAS AND CORRESPONDING GROUPS (MCS-8102534)*; 24 MONTHS $19,400

POLLARD, DAVID B; *EMPIRICAL PROCESSES (MCS-8102735)*; 24 MONTHS $28,740

BEALS, RICHARD W, AND COIFMAN, RONALD R; *PARTIAL DIFFERENTIAL EQUATIONS AND ANALYSIS (MCS-8104234)*; 12 MONTHS $51,426

DELAWARE

UNIVERSITY OF DELAWARE

WOLFE, STEPHEN J; *LEVY DISTRIBUTION FUNCTIONS AND THEIR APPLICATION TO STOCHASTIC PROCESSES (MCS-8026546)*; 12 MONTHS $10,523

BELLAMY, DAVID P; *HOMOGENEITY AND FIXED POINTS (MCS-8103402)*; 24 MONTHS $25,200

DISTRICT OF COLUMBIA

CONFERENCE BOARD OF THE MATHEMATICAL SCIENCES

BOTTS, TRUMAN A; *SUPPORTING SERVICES RELATING TO THE ADMINISTRATION OF A SERIES OF REGIONAL CONFERENCES IN THE MATHEMATICAL SCIENCES, JANUARY 15, 1981 THROUGH JANUARY 14, 1983 (MCS-8019653)*; 24 MONTHS $130,464

DEPARTMENT OF NAVY-NAVAL RESEARCH LABORATORY

HOFFMAN, HORACE E; *WORKSHOP IN GEOPHYSICAL FLUID DYNAMICS, WOODS HOLE, MASSACHUSETTS, JUNE 22 - AUGUST 28, 1981 (MCS-8115388)*; 12 MONTHS $10,000

GEORGE WASHINGTON UNIVERSITY

GASTWIRTH, JOSEPH L; *METHODS OF STATISTICAL INFERENCE (MCS-8005872 A01)*; 12 MONTHS $17,451

SMYTHE, ROBERT T; *STOCHASTIC PROCESSES (MCS-8119412)*; 12 MONTHS $10,654

HOWARD UNIVERSITY

HINDMAN, NEIL; *ULTRAFILTERS AND COMBINATORIAL PARTITION THEORY (MCS-8100733)*; 12 MONTHS $15,635

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

GOLDHABER, J K; *SUPPORT OF A SITE SELECTION COMMITTEE FOR THE 1986 INTERNATIONAL CONGRESS OF MATHEMATICIANS (MCS-8113669)*; 6 MONTHS $4,500

FLORIDA

FLORIDA STATE UNIVERSITY

OBERLIN, DANIEL M; *INVESTIGATIONS IN ANALYSIS (MCS-7827602 A01)*; 24 MONTHS $17,852

GILMER, ROBERT; *INVESTIGATIONS IN COMMUTATIVE ALGEBRA (MCS-7905183 A02)*; 12 MONTHS $17,146

BASU, DEBABRATA; *FOUNDATIONAL QUESTIONS IN STATISTICAL INFERENCE (MCS-7904693 A02)*; 12 MONTHS $16,198

BELLENOT, STEVEN F; *FUNCTIONAL ANALYSIS: CONDITIONAL BASIC SEQUENCES (MCS-8028793)*; 12 MONTHS $8,432

HUNTER, CHRISTOPH; *PROBLEMS OF GALAXIES AND APPLIED COMPLEX ANALYSIS (MCS-8026748)*; 12 MONTHS $16,366

LACHER, R C, AND BRYANT, JOHN L; *TOPOLOGY OF MANIFOLDS (MCS-8102155)*; 12 MONTHS $26,367

INDIVIDUAL AWARD

SMILLIE, JOHN D; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114164)*; 12 MONTHS $22,000

UNIVERSITY OF FLORIDA

LASIECKA, IRENA, AND TRIGGIANI, ROBERTO; *BOUNDARY CONTROL PROBLEMS FOR PARABOLIC AND HYPERBOLIC PARTIAL DIFFERENTIAL EQUATIONS (MCS-8108837*)*; 12 MONTHS $10,123

MCKENNA, PATRICK J; *REGIONAL CONFERENCE IN BIFURCATION AND SYMMETRY BREAKING; GAINESVILLE, FLORIDA; DECEMBER 14-19, 1981 (MCS-8104823)*; 6 MONTHS $16,486

UNIVERSITY OF MIAMI-SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

TAPPERT, FREDERICK D; *MODAL THEORY OF WAVE PROPAGATION IN REFRACTING RANDOM MEDIA WITH APPLICATIONS TO OCEANS (MCS-8023749*)*; 12 MONTHS $19,437

UNIVERSITY OF MIAMI

WACHS, MICHELLE G; *COMBINATORIAL PROPERTIES OF THE BRUHAT ORDER ON COXETER GROUPS AND SHELLABILITY (MCS-8103474)*; 24 MONTHS $22,708

GEORGIA

EMORY UNIVERSITY

EVANS, TREVOR; *VARIETIES OF ALGEBRAS (MCS-7903693 A02)*; 12 MONTHS $20,165

GEORGIA INSTITUTE OF TECHNOLGY MAIN CAMPUS

FORD, JOSEPH B; *CLASSICAL AND QUANTUM THEORY OF TURBULENT BEHAVIOR IN NONLINEAR SYSTEMS (DMR-7827584 A03*)*; 12 MONTHS $14,000

SLOAN, ALAN D; *STOCHASTIC ANALYSIS AND CHARACTERISTIC METHODS FOR EVOLUTION EQUATIONS (MCS-7902730 A02)*; 24 MONTHS $45,108

JEROSLOW, ROBERT G; *NONLINEAR PROGRAMMING AND CUTTING-PLANE THEORY (ECS-8001763 A01*)*; 12 MONTHS $13,000

SPRUILL, MARCUS C; *OPTIMAL EXPERIMENTAL DESIGNS (MCS-8103444)*; 24 MONTHS $21,852

BARNSLEY, MICHAEL F; *THE BOLTZMANN ENERGY EQUATIONS (MCS-8104862)*; 24 MONTHS $24,027

UNIVERSITY OF GEORGIA

POMERANCE, CARL; *NUMBER THEORY: PRIMALITY AND FACTORIZATION (MCS-8002634 A01*)*; 24 MONTHS $11,383

CLARK, D N; *ANALYSIS AND OPERATOR THEORY: TOEPLITZ OPERATORS (MCS-8100260)*; 24 MONTHS $27,335

GOOTMAN, ELLIOT C; *CROSSED PRODUCT ALGEBRAS AND GROUP REPRESENTATIONS (MCS-8102100)*; 24 MONTHS $22,384

CANFIELD, E R; *COMBINATORIAL PROBLEMS IN EXTREMAL SET THEORY WITH APPLICATIONS OF ALGEBRAIC TOPOLOGY (MCS-8102656)*; 24 MONTHS $20,385

MCCRORY, CLINTON G; *GEOMETRY AND TOPOLOGY OF MANIFOLDS (MCS-8102759)*; 12 MONTHS $31,800

HAWAII

UNIVERSITY OF HAWAII-MANOA

ALLDAY, CHRISTOPH J; *LIE GROUP ACTIONS ON HOMOGENEOUS SPACES (MCS-7902036 A01)*; 24 MONTHS $20,500

WILSON, LESLIE C; *GLOBAL PROBLEMS IN SINGULARITY THEORY (MCS-8100779)*; 24 MONTHS $19,100

HILE, GERALD N; *FIRST ORDER ELLIPTIC SYSTEMS OF PARTIAL DIFFERENTIAL EQUATIONS (MCS-8100801)*; 12 MONTHS $10,178

NATION, JAMES B; *LATTICE THEORY (MCS-8101655)*; 12 MONTHS $8,850

STEGENGA, DAVID A; *HARDY SPACES AND DUALITY (MCS-8106816*)*; 12 MONTHS $18,052

ILLINOIS

ILLINOIS INSTITUTE OF TECHNOLOGY

LUBIN, ARTHUR R; *OPERATOR THEORY AND LINEAR SYSTEMS THEORY (MCS-8101735)*; 24 MONTHS $20,008

BERNSTEIN, BARRY, AND MALKUS, DAVID S; *STEADY FLOW OF MEMORY FLUIDS WITH FINITE ELEMENTS (MCS-8102089*)*; 12 MONTHS $19,292

ILLINOIS STATE UNIVERSITY

SMITH, BRENT; *SOME INEQUALITIES FOR MEASURE NORMS (MCS-8102547)*; 24 MONTHS $6,876

INDIVIDUAL AWARD

WOLFF, THOMAS H; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8017153 A01)*; 12 MONTHS $22,000

JERISON, DAVID S; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8017202 A01)*; 12 MONTHS $22,000

SCHAFLY, ROGER; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114166)*; 12 MONTHS $22,000

PERRY, PETER A; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114168)*; 12 MONTHS $22,000

NORTHERN ILLINOIS UNIVERSITY

NICHOLLS, PETER; *ERGODIC PROPERTIES OF DISCRETE GROUPS (MCS-8102*93)*; 24 MONTHS $20,211

WUNDERLICH, MARVIN; *FACTORING LARGE COMPOSITE NUMBERS ON PARALLEL MACHINES (MCS-8103725*)*; 24 MONTHS $7,000

GUPTA, CHAITAN P; *REGIONAL CONFERENCE ON THE NAVIER-STOKES EQUATIONS AND NONLINEAR FUNCTIONAL ANALYSIS; DEKALB, ILLINOIS; AUGUST 24-28, 1981 (MCS-8104820)*; 6 MONTHS $17,997

NORTHWESTERN UNIVERSITY

MAHOWALD, MARK E, AND BARRATT, MICHAEL G; *ALGEBRAIC TOPOLOGY (MCS-7827592 A02)*; 12 MONTHS $98,400

DEVINATZ, ALLEN; *FUNCTIONAL ANALYSIS AND DIFFERENTIAL EQUATIONS (MCS-7902538 A02)*; 12 MONTHS $31,121

FRIEDMAN, AVNER; *PARTIAL DIFFERENTIAL EQUATIONS AND FUNCTIONAL ANALYSIS (MCS-7915171 A01)*; 12 MONTHS $24,341

STEIN, MICHAEL R, AND SALLY, JUDITH D; *COMMUTATIVE ALGEBRA AND ALGEBRAIC K-THEORY (MCS-8000929 A01)*; 12 MONTHS $27,000

JEROME, JOSEPH W; *APPROXIMATION OF NONLINEAR PHYSICAL MODELS (MCS-8001560 A01)*; 24 MONTHS $18,129

FRANKS, JOHN M; *DIFFERENTIABLE DYNAMICAL SYSTEMS (MCS-8002177 A01)*; 12 MONTHS $57,000

BELLOW, ALEXANDRA, AND MARCUS, MICHAEL B; *TOPICS IN ANALYSIS AND PROBABILITY (MCS-8002798 A01)*; 12 MONTHS $31,608

TURKINGTON, BRUCE E; *NONLINEAR FREE BOUNDARY PROBLEMS (MCS-8002927 A01)*; 24 MONTHS $19,728

GRAHAM, COLIN C; *HARMONIC ANALYSIS: STRUCTURE AND SPECTRAL THEORY (MCS-8101682)*; 24 MONTHS $23,836

SACKS, JEROME; *APPROXIMATELY LINEAR MODELS (MCS-8118582)*; 12 MONTHS $17,783

UNIVERSITY OF CHICAGO

DOUGLAS, JIM; *NUMERICAL ANALYSIS AND PARTIAL DIFFERENTIAL EQUATIONS (MCS-7802861 A03)*; 12 MONTHS $58,102

DOUGLAS, JIM; *NUMERICAL ANALYSIS AND PARTIAL DIFFERENTIAL EQUATIONS (MCS-7802861 A04)*; $5,211

KAPLANSKY, IRVING; *GROUPS, RINGS, AND HOMOLOGICAL ALGEBRA (MCS-7904469 A03)*; 12 MONTHS $93,052

KAPLANSKY, IRVING; *GROUPS, RINGS, AND HOMOLOGICAL ALGEBRA (MCS-7904469 A04*)*; $900

REID, WILLIAM H; *ASYMPTOTIC AND NUMERICAL METHODS IN FLUID MECHANICS (MCS-8001576 A01)*; 12 MONTHS $30,369

BAHADUR, RAGHU R; *MATHEMATICAL STATISTICS AND PROBABILITY (MCS-8002217 A01)*; 12 MONTHS $80,849

BROWDER, FELIX E; *PARTIAL DIFFERENTIAL EQUATIONS AND NONLINEAR FUNCTIONAL ANALYSIS (MCS-8002306 A01)*; 12 MONTHS $43,045

NARASIMHAN, RAGHAVAN; *THE LEVI PROBLEM AND THE DEDEKIND ZETA FUNCTION (MCS-8002323 A01)*; 12 MONTHS $17,909

NARASIMHAN, RAGHAVAN; *LEVI PROBLEM AND THE DEDEKIND ZETA FUNCTION (MCS-8002323 A02)*; $6,000

LASHOF, RICHARD K; *GEOMETRIC TOPOLOGY, ALGEBRAIC TOPOLOGY AND HOMOLOGICAL ALGEBRA (MCS-8002730 A01)*; $8,898

LASHOF, RICHARD K; *GEOMETRIC TOPOLOGY, ALGEBRAIC TOPOLOGY AND HOMOLOGICAL ALGEBRA (MCS-8002730 A02)*; 12 MONTHS $124,800

ZYGMUND, ANTONI, AND CALDERON, ALBERTO P; *MATHEMATICAL ANALYSIS (MCS-8002908 A01)*; 12 MONTHS $63,959

SALLY, PAUL J; *GROUP REPRESENTATIONS, HARMONIC ANALYSIS AND ERGODIC THEORY (MCS-8004026 A01)*; $6,000

SALLY, PAUL J; *GROUP REPRESENTATIONS, HARMONIC ANALYSIS AND ERGODIC THEORY (MCS-8004026 A02)*; 12 MONTHS $56,186

CALDERON, ALBERTO P; *CONFERENCE ON FOURIER ANALYSIS AND REAL VARIABLES, MARCH 23-27, 1981, CHICAGO, ILLINOIS (MCS-8019742)*; 6 MONTHS $15,900

BAILY, WALTER L; *AUTOMORPHIC FUNCTIONS, COMPLEX MULTIPLICATION AND NUMBER THEORY (MCS-8101571)*; 12 MONTHS $19,679

STIGLER, STEPHEN M, AND WONG, WING H; *MATHEMATICAL STATISTICS (MCS-8101836)*; 12 MONTHS $31,521

SOARE, ROBERT I; *RECURSIVE FUNCTION THEORY (MCS-8102443)*; 12 MONTHS $26,500

HERSTEIN, ISRAEL N; *RING THEORY (MCS-8102472)*; 12 MONTHS $20,800

JONES, PETER W; *CLASSICAL ANALYSIS (MCS-8102631)*; 24 MONTHS $23,478

BLOCH, SPENCER J; *ALGEBRAIC K-THEORY AND ALGEBRAIC GEOMETRY (MCS-8102639)*; 12 MONTHS $34,900

LEBOVITZ, NORMAN R; *BIFURCATION AND INITIAL-VALUE PROBLEMS IN ASTROPHYSICAL FLUID DYNAMICS (MCS-8102685)*; 12 MONTHS $26,283

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

ATKIN, A O L; *MODULAR FORMS AND COMPUTATIONAL NUMBER THEORY (MCS-7802818 A03)*; 12 MONTHS $19,798

BOUSFIELD, ALDRIDGE K; *HOMOLOGICAL LOCALIZATIONS OF SPACES AND SPECTRA (MCS-7900807 A01)*; 24 MONTHS $28,400

ALEXANDER, HERBERT; *UNIFORM ALGEBRAS AND SEVERAL COMPLEX VARIABLES (MCS-7901303 A01)*; 24 MONTHS $29,540

RADFORD, DAVID E; *FUNDAMENTAL PROBLEMS IN THE STRUCTURE OF HOPF ALGEBRAS (MCS-7902749 A02)*; 12 MONTHS $11,438

PLESS, VERA; *COMPUTER ALGORITHMS IN FINITE GROUPS AND COMBINATORIAL STRUCTURES (MCS-7924986 A01*)*; 12 MONTHS $18,882

MASLEY, JOHN M; *CLASS GROUPS OF ALGEBRAIC NUMBER FIELDS (MCS-8002261)*; 24 MONTHS $20,700

BALDWIN, JOHN T; *MODEL THEORY (MCS-8100258)*; 24 MONTHS $23,743

ITO, NOBORU, AND FONG, PAUL; *FINITE DESIGNS AND FINITE GROUPS (MCS-8101689)*; 12 MONTHS $48,295

TWERSKY, VICTOR; *MANY-BODY THEORY, CONTINUUM MECHANICS AND MATHEMATICAL BIO-PHYSICS (MCS-8101698)*; 12 MONTHS $82,000

WOOD, JOHN W; *GEOMETRY AND TOPOLOGY (MCS-8102219)*; 12 MONTHS $38,800

ETEMADI, NASROLLAH; *LAWS OF LARGE NUMBERS FOR NON-NEGATIVE RANDOM VARIABLES (MCS-8102415)*; 12 MONTHS $8,705

WAGREICH, PHILIP; *SINGULARITIES, COMPLEX SPACES AND DISCRETE GROUPS (MCS-8102422)*; 24 MONTHS $48,388

TARTAKOFF, DAVID S; *PARTIAL DIFFERENTIAL EQUATIONS AND FUNCTIONS OF SEVERAL COMPLEX VARIABLES (MCS-8102587)*; 12 MONTHS $11,439

SRINIVASAN, BHAMA; *REPRESENTATIONS OF GROUPS OF LIE TYPE (MCS-8117533)*; 12 MONTHS $10,543

UNIVERSITY OF ILLINOIS AT URBANA

TONDEUR, PHILIPPE, AND KAMBER, FRANZ W; *DIFFERENTIAL GEOMETRY (MCS-7900256 A02)*; 12 MONTHS $32,800

CHEN, KUO T; *ALGEBRAIC TOPOLOGY AND DIFFERENTIAL FORMS (MCS-7900321 A02)*; 12 MONTHS $20,367

HAKEN, WOLFGANG, AND APPEL, KENNETH I; *THREE-DIMENSIONAL TOPOLOGY AND COMBINATORIAL GROUP THEORY (MCS-7902512 A02)*; 12 MONTHS $37,453

WIJSMAN, ROBERT A, AND BURKHOLDER, DONALD L; *STATISTICS: INFERENCE, INVARIANCE, AND MARTINGALES (MCS-7902581 A02)*; 12 MONTHS $72,894

RUBEL, LEE A; *FACTORIZATION IN SPACES OF ANALYTIC FUNCTIONS (MCS-7925455 A01)*; 12 MONTHS $19,405

TING, T W; *APPLIED MATHEMATICS: PROBLEMS IN CONTINUUM MECHANICS AND CONTINUUM GAS DYNAMICS (MCS-8001845 A01)*; 12 MONTHS $25,668

BANK, STEVEN B, AND MILES, JOSEPH B; *DIFFERENTIAL EQUATIONS IN THE COMPLEX DOMAIN AND NEVANLINNA THEORY (MCS-8002269 A01)*; 12 MONTHS $52,756

REINER, IRVING, AND JANUSZ, GERALD J; *ALGEBRA AND ALGEBRAIC NUMBER THEORY (MCS-8002307 A02)*; 12 MONTHS $114,625

BLUMENTHAL, SAUL; *ASYMPTOTIC EXPANSIONS AND ROBUST ESTIMATION (MCS-8002340 A01)*; 12 MONTHS $28,666

KNIGHT, FRANK B; *MARKOV PROCESSES (MCS-8002660 A01)*; 12 MONTHS $27,329

PHILIPP, WALTER V; *PROBABILITY THEORY (MCS-8002796 A01)*; 12 MONTHS $13,600

PHILIPP, WALTER V; *PROBABILITY THEORY (MCS-8002796 A02)*; $12,000

JOCKUSCH, CARL G; *LOGIC AND GROUP THEORY (MCS-8003251 A01)*; 12 MONTHS $67,700

D'ANGELO, JOHN P; *GEOMETRY OF REAL HYPERSURFACES (MCS-8100731)*; 24 MONTHS $20,387

BERKSON, EARL R; *FUNCTIONAL ANALYSIS AND OPERATOR THEORY (MCS-8101637)*; 12 MONTHS $46,822

DIAMOND, HAROLD G, AND HALBERSTAM, HEINI; *ANALYTIC NUMBER THEORY AND RELATED ANALYSIS (MCS-8101688)*; 12 MONTHS $43,606

GRAY, JOHN W; *APPLICATIONS OF CLOSED CATEGORIES (MCS-8102351)*; 12 MONTHS $15,791

MCLINDEN, LYNN; *STUDIES IN OPTIMIZATION AND EQUILIBRIUM USING METHODS OF CONVEXITY AND MONOTONICITY (MCS-8102684)*; 12 MONTHS $17,417

REINER, IRVING; *SPECIAL YEAR IN ALGEBRAIC NUMBER THEORY AND ALGEBRA (MCS-8110624)*; 12 MONTHS $36,300

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

KULKARNI, RAVI S; *1) DISCONTINUOUS TRANSFORMATION GROUPS; 2) REAL AND COMPLEX ALGEBRAIC GEOMETRY (MCS-7800810 A01)*; $15,870

KULKARNI, RAVI S; *DISCRETE GROUPS IN GEOMETRY AND TOPOLOGY (MCS-7800810 A02)*; 24 MONTHS $29,900

EDMONDS, ALLAN L; *BRANCHED COVERINGS AND FINITE GROUP ACTIONS ON MANIFOLDS (MCS-7903456 A01)*; $2,493

STAMPFLI, JOSEPH G; *LOCAL SPECTRAL THEORY, PRINCIPAL FUNCTIONS, QUASI - SIMILARITY AND SIMILARITY (MCS-8001592 A01)*; 12 MONTHS $8,666

HALMOS, PAUL R; *INVARIANT SUBSPACES (MCS-8023742)*; 36 MONTHS $55,053

LOWENGRUB, MORTON; *MIXED BOUNDARY VALUE PROBLEMS IN ELASTICITY (MCS-8025582)*; 24 MONTHS $30,580

TORCHINSKY, ALBERTO; *REAL VARIABLE THEORY OF WEIGHTED HARDY SPACES, MULTIPLIERS AND MEAN VALUE INEQUALITIES (MCS-8100769)*; 24 MONTHS $23,313

YANG, PAUL C; *DIFFERENTIAL GEOMETRIC STUDY OF DOMAINS IN CN (MCS-8101575)*; 24 MONTHS $22,100

MCGIBBON, CHARLES; *SOME HOMOTOPY QUESTIONS ABOUT TOPOLOGICAL GROUPS (MCS-8101582)*; 24 MONTHS $16,600

BRADLEY, RICHARD C; *LIMIT THEOREMS FOR STRICTLY STATIONARY SEQUENCES OF RANDOM VARIABLES (MCS-8101583)*; 12 MONTHS $8,466

DADOK, JIRI; *SOLVABILITY OF DIFFERENTIAL EQUATIONS ON A NILMANIFOLD (MCS-8101635)*; 24 MONTHS $17,900

ZUCKER, STEVEN; *ALGEBRAIC GEOMETRY: HODGE THEORY WITH DEGENERATING COEFFICIENTS (MCS-8101650)*; 24 MONTHS $20,653

FOIAS, CIPRIAN I; *STRUCTURE THEORY FOR OPERATORS ON HILBERT SPACE (MCS-8101663)*; 24 MONTHS $42,781

CONSTANTINE, GREGORY M; *OPTIMALITY AND CONSTRUCTION OF STATISTICAL DESIGNS (MCS-8101787)*; 12 MONTHS $8,153

SRINIVASAN, CIDAMBI; *STATISTICAL DECISION THEORY (MCS-8102102)*; 24 MONTHS $19,622

AUCHMUTY, J F; *BIFURCATION PROBLEMS IN ASTROPHYSICS (MCS-8102461)*; 12 MONTHS $10,800

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS

ALIPRANTIS, C D, AND BURKINSHAW, OWEN; *COMPACTNESS OF KERNEL AND ORDER BOUNDED OPERATORS (MCS-8100787)*; 12 MONTHS $17,631

NG, BARTHOLOM S; *THE COMPOUND MATRIX METHOD AND HYDRODYNAMIC STABILITY (MCS-8101932)*; 24 MONTHS $24,938

KAMINKER, JEROME A; *K-THEORY, C*-ALGEBRAS AND INDEX THEORY FOR ELLIPTIC OPERATORS (MCS-8102246)*; 24 MONTHS $20,761

INDIVIDUAL AWARD

ALLINGER, DEBORAH; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114184)*; 12 MONTHS $22,000

PURDUE UNIVERSITY

BROWN, LAWRENCE G; *C*-ALGEBRAS AND OPERATOR THEORY (MCS-7800992 A03)*; 12 MONTHS $17,087

GOTTLIEB, DANIEL H; *EVALUATION MAPS (MCS-7802288 A01)*; $9,935

GOTTLIEB, DANIEL H; *TOPOLOGICAL INVESTIGATIONS (MCS-7802288 A02)*; 24 MONTHS $33,000

PENNEY, RICHARD C; *WAVE EQUATIONS ON NILMANIFOLDS AND REPRESENTATION THEORY (MCS-7804898 A01)*; 24 MONTHS $28,129

WANG, JOHN S P; *ON S-SUBGROUPS OF LOCALLY COMPACT GROUPS (MCS-7900695 A02)*; 12 MONTHS $15,931

STUDDEN, WILLIAM J; *OPTIMAL EXPERIMENTAL DESIGNS (MCS-7901707 A02)*; 12 MONTHS $34,597

COWEN, CARL C; *STRUCTURE OF OPERATORS ON HILBERT SPACE (MCS-7902018 A01)*; 24 MONTHS $21,758

PROTTER, PHILIP E; *STOCHASTIC DIFFERENTIAL EQUATIONS, LOCAL TIMES AND RELATED TOPICS (MCS-7902746 A01)*; 24 MONTHS $21,816

LIPMAN, JOSEPH; *LOCAL THEORY OF RESIDUES (MCS-7903444 A02)*; 12 MONTHS $18,822

SAWYER, STANLEY A; *CONVERGENCE AND STABILITY RESULTS FOR A GENERALIZED FISHER'S EQUATION, AND NON-STANDARD STEPPING STONE MODELS (MCS-7903472 A02)*; 12 MONTHS $15,135

TONG, Y L; *DUALITY AND INTERSECTION THEORY IN COMPLEX MANIFOLDS (MCS-7903798 A01)*; 24 MONTHS $26,900

GLESER, LEON JAY; *LARGE SAMPLE STATISTICAL THEORY, WITH EMPHASIS ON TESTS OF GOODNESS-OF-FIT (MCS-7905815 A03)*; 12 MONTHS $23,023

DAVIS, BURGESS J; *APPLICATIONS OF PROBABILITY TO ANALYSIS (MCS-7906632 A02)*; 12 MONTHS $17,337

PUTNAM, CALVIN R; *AN INVESTIGATION OF HYPONORMAL OPERATORS AND THEIR SPECTRA (MCS-7924029 A01)*; 12 MONTHS $20,862

RICE, JOHN R; *NONLINEAR APPROXIMATION (MCS-7926396 A01)*; 12 MONTHS $21,205

BERKOVITZ, LEONARD D; *DIFFERENTIAL GAMES AND OPTIMAL CONTROL (MCS-7927137 A01*)*; 12 MONTHS $10,387

GOFFMAN, CASPER; *PROBLEMS IN REAL AND HARMONIC ANALYSIS (MCS-8001545 A01)*; 12 MONTHS $19,766

HEINZER, WILLIAM J; *GENERALIZATIONS OF LUROTH'S THEOREM, SUBRINGS OF POLYNOMIAL RINGS, AND SOME TOPICS IN COMMUTATIVE RING THEORY (MCS-8002201 A01)*; 12 MONTHS $15,993

ALIKAKOS, NICHOLAS; *REACTION - DIFFUSION EQUATIONS (MCS-8002540 A01)*; 24 MONTHS $19,191

DRASIN, DAVID, AND BROWN, JOHNNY; *PROBLEMS IN COMPLEX ANALYSIS (MCS-8002703 A01)*; 12 MONTHS $25,638

ABHYANKAR, SHREERAM; *ALGEBRA AND ALGEBRAIC GEOMETRY (MCS-8002900 A01)*; 12 MONTHS $36,625

BECKER, JAMES C; *HOMOTOPY THEORY (MCS-8005793 A01)*; 12 MONTHS $19,485

GUPTA, SHANTI S; *INTERNATIONAL SYMPOSIUM ON STATISTICAL DECISION THEORY AND RELATED TOPICS - WEST LAFAYETTE, INDIANA - JUNE 1-4, 1981 (MCS-8024665)*; 6 MONTHS $15,000

DOVERMANN, KARL H; *EQUIVARIANT SURGERY AND FINITE TRANSFORMATION GROUPS (MCS-8100751)*; 24 MONTHS $19,000

ZACHMANOGLOU, ELEFTHERI C; *DEGENERATE PARABOLIC EQUATIONS AND CRITICAL POINTS FOR VARIATIONAL PROBLEMS (MCS-8100804)*; 12 MONTHS $9,463

SHAHIDI, FREYDOON; *INTERTWINING OPERATORS, L-FUNCTIONS AND LOCAL COEFFICIENTS (MCS-8101600)*; 12 MONTHS $10,000

BERGER, JAMES O; *INVESTIGATIONS IN STATISTICAL DECISION THEORY (MCS-8101670)*; 12 MONTHS $50,075

LIPSHITZ, LEONARD M; *MODEL THEORY OF LOCAL RINGS; DIOPHANTINE PROBLEMS FOR ADDITION AND DIVISIBILITY (MCS-8102689)*; 24 MONTHS $26,890

PURI, PREM S; *MULTI-COMPARTMENT STOCHASTIC MODELS (MCS-8102733)*; 12 MONTHS $17,550

SCHULTZ, REINHARD; *MANIFOLDS WITH GROUP ACTION AND HOMOTOPY THEORY (MCS-8104855)*; 24 MONTHS $33,659

BAOUENDI, MOHAMED S; *PROBLEMS IN PARTIAL DIFFERENTIAL EQUATIONS THEORY (MCS-8105627)*; 12 MONTHS $33,351

UNIVERSITY OF NOTRE DAME

HAHN, ALEXANDER J; *GROUP OF LIE TYPE AND CLASSICAL GROUPS (MCS-8003106 A01)*; $5,830

STOLL, WILHELM; *THEORY OF SEVERAL COMPLEX VARIABLES (MCS-8003257 A01)*; 12 MONTHS $28,668

SOMMESE, ANDREW J, AND STOLL, WILHELM; *THE MIDWEST CONFERENCE ON SEVERAL COMPLEX VARIABLES (MCS-8012928)*; 12 MONTHS $3,356

O'HALLORAN, JOYCE; *COHOMOLOGY OF ALGEBRAIC GROUPS AND LIE ALGEBRAS (MCS-8101546)*; 12 MONTHS $8,459

TAYLOR, LAURENCE R; *ALGEBRAIC AND GEOMETRIC TOPOLOGY (MCS-8102204)*; 12 MONTHS $46,750

IOWA

UNIVERSITY OF IOWA

WALTMAN, PAUL; *ANALYSIS OF MATHEMATICAL MODELS OF ECOLOGICAL PROBLEMS (MCS-7901069 A02)*; 12 MONTHS $17,480

MUHLY, PAUL S; *ERGODIC AND FUNCTION THEORETIC METHODS IN THE ANALYSIS OF OPERATOR ALGEBRAS (MCS-7902547 A02)*; 12 MONTHS $13,110

KUTZKO, PHILIP C; *REPRESENTATIONS AND CHARACTERS OF P-ADIC LINEAR GROUPS: LOCAL RECIPROCITY LAWS (MCS-7905037 A01)*; 24 MONTHS $24,815

OEHMKE, ROBERT H; *WORKSHOPS ON BANACH SPACES; IOWA CITY, IOWA; JUNE 29-JULY 24, 1981 (MCS-8023849)*; 6 MONTHS $13,090

SIMON, JONATHAN K; *KNOTS AND 3-MANIFOLDS (MCS-8102145)*; 24 MONTHS $23,600

TON-THAT, TUONG; *HARMONIC ANALYSIS AND SPECIAL FUNCTIONS (MCS-8102345)*; 24 MONTHS $18,832

MUHLY, PAUL S, AND OEHMKE, ROBERT H; *REGIONAL CONFERENCE ON AUTOMORPHISM GROUPS OF VON NEUMANN ALGEBRAS AND THE STRUCTURE OF FACTORS; IOWA CITY, IOWA; APRIL 26-30, 1982 (MCS-8105322)*; 6 MONTHS $25,000

KANSAS

KANSAS STATE UNIVERSITY

PIGNO, LOUIS; *SOME INEQUALITIES FOR FOURIER TRANSFORMS (MCS-8102061)*; 24 MONTHS $24,613

SHULT, ERNEST E; *GROUP-RELATED GEOMETRIES (MCS-8102702)*; 24 MONTHS $28,686

UNIVERSITY OF KANSAS MAIN CAMPUS

DUNCAN, TYRONE E; *GEOMETRIC SYSTEM THEORY (ECS-8024917*)*; 12 MONTHS $9,500

KOSAKI, HIDEKI; *NON-COMMUTATIVE INTEGRATION THEORY FOR VON NEUMANN ALGEBRAS (MCS-8102158)*; 24 MONTHS $14,500

KUSTIN, ANDREW R; *THE STRUCTURE OF GRADE FOUR GORENSTEIN IDEALS (MCS-8102276)*; 12 MONTHS $7,000

GALVIN, FRED; *COMBINATORIAL SET THEORY (MCS-8102532)*; 24 MONTHS $24,049

ROITMAN, JUDITH; *APPLICATIONS OF SET THEORY TO TOPOLOGY AND ALGEBRA (MCS-8102599)*; 24 MONTHS $19,600

KENTUCKY

UNIVERSITY OF KENTUCKY

CHAPMAN, THOMAS A, AND FERRY, STEVEN C; *TOPOLOGY OF FINITE AND INFINITE DIMENSIONAL MANIFOLDS (MCS-8002849 A01)*; 12 MONTHS $29,505

GILES, FREDERICK R; *INTEGRALITY AND COMBINATORIAL OPTIMIZATION (MCS-8002987 A01)*; 24 MONTHS $18,755

BRENNAN, JAMES E, AND SUFFRIDGE, T J; *INTERNATIONAL CONFERENCE ON CONTEMPORARY COMPLEX ANALYSIS; LEXINGTON, KENTUCKY, MAY 25-29, 1981 (MCS-8101709)*; 6 MONTHS $7,498

GARIEPY, RONALD; *REGULARITY CONDITIONS AT THE BOUNDARY FOR SOLUTIONS OF PARABOLIC EQUATIONS AND OF ELLIPTIC EQUATIONS (MCS-8101889)*; 12 MONTHS $9,707

VAN WINTER, CLASINE; *SCATTERING AND THE N-BODY PROBLEM IN QUANTUM MECHANICS (MCS-8102135)*; 24 MONTHS $27,042

PURDUE, PETER, AND ALLEN, DAVID M; *STOCHASTIC COMPARTMENTAL SYSTEMS (MCS-8102215)*; 12 MONTHS $23,328

FAIRWEATHER, GRAEME; *BOUNDARY METHODS FOR ELLIPTIC BOUNDARY VALUE PROBLEMS (MCS-8102295*)*; 24 MONTHS $13,000

GRAGG, WILLIAM B; *NUMERICAL ALGEBRA & COMPLEX ANALYSIS (MCS-8102344)*; 12 MONTHS $15,014

LEWIS, JOHN L; *LEVEL SETS OF UNIVALENT FUNCTIONS AND POTENTIALS (MCS-8102414)*; 24 MONTHS $19,491

BHAPKAR, VASANT P; *SMALL SAMPLE ADJUSTMENTS FOR WALD STATISTICS AND WEIGHTED LEAST SQUARES STATISTICS IN CATEGORICAL DATA AND RELATED PROBLEMS (MCS-8102542)*; 12 MONTHS $15,041

LOUISIANA

INDIVIDUAL AWARD

GILMER, PATRICK M; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114178)*; 12 MONTHS $22,000

LOUISIANA STATE UNIVERSITY, BATON ROUGE

RETHERFORD, JAMES R; *APPROXIMATION NUMBERS OF OPERATORS ON BANACH SPACES (MCS-8001580 A01)*; 12 MONTHS $20,052

RICHARDSON, LEONARD F; *HARMONIC ANALYSIS ON COMPACT NIL-MANIFOLDS (MCS-8026577)*; 24 MONTHS $23,723

KUO, HUI-HSIUN, AND GINE, EVARIST; *STOCHASTIC ANALYSIS AND PROBABILITY THEORY IN INFINITE DIMENSIONAL SPACES (MCS-8100728)*; 12 MONTHS $22,123

MCGEHEE, O CARRUTH; *ENUMERATION OF GRAPHS, MAPS AND CONVEX POLYHEDRA (MCS-8101555)*; 24 MONTHS $18,077

PERLIS, ROBERT V; *MODULAR REPRESENTATIONS IN ALGEBRAIC NUMBER THEORY (MCS-8102612)*; 24 MONTHS $22,818

DELZELL, CHARLES N; *HILBERT'S 16TH AND 17TH PROBLEMS (MCS-8102744*)*; 24 MONTHS $11,654

TULANE UNIVERSITY

DUPRE, MAURICE J; *CLASSIFICATION OF C*-ALGEBA BUNDLES (MCS-7900241 A01)*; 24 MONTHS $21,031

FINTUSHEL, RONALD A; *THE BOUNDING PROBLEM FOR HOMOLOGY 3-SPHERES AND APPLICATIONS TO THE TOPOLOGY OF 4-DIMENSIONAL MANIFOLDS (MCS-7900244 A01)*; 24 MONTHS $23,700

GOLDSTEIN, JEROME A; *OPERATOR THEORY AND DIFFERENTIAL EQUATIONS (MCS-8101542)*; 24 MONTHS $31,980

ROSE, MICHAEL E; *NUMERICAL METHODS FOR PROBLEMS IN FLOWS THROUGH POROUS MEDIA AND HEAT TRANSFER (MCS-8101543)*; 12 MONTHS $10,500

ROGERS, JAMES T; *CLASSIFICATION OF HOMOGENEOUS CURVES (MCS-8101565)*; 24 MONTHS $24,700

FUCHS, LASZLO; *ABELIAN GROUPS AND MODULES OVER VALUATION RINGS (MCS-8101574)*; 12 MONTHS $10,800

BEALE, J T; *FREE SURFACES AND NUMERICAL METHODS IN FLUID MECHANICS (MCS-8101659)*; 24 MONTHS $23,652

KALKA, MORRIS, VITTER, ALBERT L, AND WONG, PIT-MANN; *COMPLEX ANALYSIS (MCS-8101664)*; 12 MONTHS $27,522

MARYLAND

INDIVIDUAL AWARD

CLARKE, DALE M; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114183)*; 12 MONTHS $22,000

JOHNS HOPKINS UNIVERSITY

IGUSA, JUN-ICHI; *THEORY OF HIGHER DEGREE FORMS (MCS-7700827 A04)*; 12 MONTHS $20,997

KEMPF, GEORGE R; *ALGEBRAIC GEOMETRY (MCS-7900965 A02)*; 12 MONTHS $15,586

SHALIKA, JOSEPH A; *REPRESENTATION THEORY AND AUTOMORPHIC FORMS ON THE GENERAL LINEAR GROUPS (MCS-7913799 A01)*; 12 MONTHS $16,138

HARRELL, EVANS M; *SCHRODINGER AND DIRAC OPERATORS WITH SINGULAR PERTURBATIONS (MCS-7926408 A01)*; 24 MONTHS $21,500

BOARDMAN, JOHN M; *INVESTIGATIONS IN ALGEBRAIC TOPOLOGY (MCS-8013647)*; 24 MONTHS $33,309

TRUESDELL, CLIFFORD A; *RATIONAL THERMOMECHANICS OF MATERIALS (MCS-8015791*)*; 12 MONTHS $37,730

MCCLURE, JAMES E; *EQUIVARIANT HOMOTOPY THEORY (MCS-8018626)*; 24 MONTHS $22,150

SHIFFMAN, BERNARD; *SEVERAL COMPLEX VARIABLES (MCS-8021259)*; 24 MONTHS $31,407

SHIFFMAN, BERNARD; *SEVERAL COMPLEX VARIABLES (MCS-8021259 A01)*; $16,788

ONO, TAKASHI; *ARITHMETIC PROPERTIES OF ALGEBRAIC VARIETIES (MCS-8100721)*; 12 MONTHS $20,354

UNIVERSITY OF MARYLAND, COLLEGE PARK

YORKE, JAMES A; *QUALITATIVE BEHAVIOR FOR GENERALIZED DYNAMICAL PROCESSES (MCS-7818221 A02)*; 12 MONTHS $28,075

LIPSMAN, RONALD L; *ORBIT THEORY AND HARMONIC ANALYSIS ON LIE GROUPS WITH CO-COMPACT NILRADICAL (MCS-7827576 A02)*; 12 MONTHS $16,427

GOLDSTEIN, LARRY J; *ANALYTIC NUMBER THEORY AND THE THEORY OF AUTOMORPHIC FORMS (MCS-7902107 A03)*; $7,707

KATOK, ANATOLE; *TOPICS IN ERGODIC THEORY AND DIFFERENTIAL DYNAMICS (MCS-7903046 A03)*; 12 MONTHS $29,035

BUCHNER, MICHAEL A; *THE GEOMETRY AND COHOMOLOGY OF CERTAIN DOMAINS IN THE COMPLEX PROJECTIVE SPACE (MCS-7905100 A01)*; 24 MONTHS $20,200

ANTMAN, STUART S; *NONLINEAR PROBLEMS OF SOLID MECHANICS (MCS-8001846 A01*)*; 12 MONTHS $9,153

COHEN, JOEL M; *LOW DIMENSIONAL COMPLEXES AND C* ALGEBRAS OF GROUPS (MCS-8002218 A01)*; 12 MONTHS $24,998

ZALCMAN, LAWRENCE, AND BERENSTEIN, CARLOS; *COMPLEX ANALYSIS AND DIFFERENTIAL EQUATIONS (MCS-8100749)*; 12 MONTHS $22,724

MARKLEY, NELSON G; *EQUILIBRIUM STATES FOR GRID FUNCTIONS (MCS-8101708)*; 24 MONTHS $24,540

OSBORN, JOHN E; *NUMERICAL SOLUTIONS OF DIFFERENTIAL EQUATIONS (MCS-8102012)*; 12 MONTHS $28,877

GOLDSTEIN, LARRY J, RAZAR, MICHAEL, AND ZAGIER, DON B; *THE THEORY OF NUMBERS (MCS-8102211)*; 12 MONTHS $43,614

GRAY, ALFRED; *EINSTEIN MANIFOLDS AND THE VOLUME OF TUBES (MCS-8102256)*; 12 MONTHS $14,600

BENEDETTO, JOHN J, AND JOHNSON, RAYMOND; *HARMONIC ANALYSIS: WEIGHTED L1, BESOV AND LP SPACES (MCS-8102273)*; 12 MONTHS $27,973

FITZPATRICK, P M; *NONLINEAR FUNCTIONAL ANALYSIS (MCS-8102548)*; 24 MONTHS $35,281

BROOKS, ROBERT; *GEOMETRY OF THE FUNDAMENTAL GROUP (MCS-8102747)*; 24 MONTHS $18,800

EVANS, LAWRENCE C; *NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS (MCS-8102846)*; 24 MONTHS $24,019

LIU, TAI-PING; *QUASILINEAR HYPERBOLIC PARTIAL DIFFERENTIAL EQUATIONS AND APPLICATIONS (MCS-8102848)*; 12 MONTHS $22,000

DOUGLIS, AVRON; *CONSTRUCTION METHODS FOR THE NAVIER-STOKES AND OTHER EQUATIONS (MCS-8103434)*; 12 MONTHS $18,494

WEI, CHING-ZON; *CONVERGENCE PROPERTIES OF LEAST SQUARES ESTIMATES AND ADAPTIVE STOCHASTIC APPROXIMATION (MCS-8103448)*; 12 MONTHS $9,317

GOHBERG, ISRAEL, AND GOLDBERG, SEYMOUR; *FACTORIZATION OF OPERATORS (MCS-8103463)*; 12 MONTHS $16,356

OLVER, FRANK W; *ASYMPTOTIC AND NUMERICAL APPROXIMATIONS (MCS-8111725*)*; 36 MONTHS $45,000

MASSACHUSETTS

ASSOCIATION FOR PHYSICAL & SYSTEMS MATHEMATICS

HERMANN, ROBERT; *FIRST WORKSHOP ON CONTROL SYSTEM GEOMETRY, SYSTEM IDENTIFICATION AND PARAMETER ESTIMATION (ECS-8101099*)*; 12 MONTHS $5,750

BOSTON UNIVERSITY

DEVANEY, ROBERT L; *DYNAMICAL SYSTEMS AND CLASSICAL MECHANICS (MCS-8101855)*; 24 MONTHS $26,000

KURLAND, HENRY L; *HOMOTOPY INVARIANTS AND PERIODIC BEHAVIOR OF NON-LINEAR REACTION-DIFFUSION EQUATIONS (MCS-8103459)*; 12 MONTHS $9,504

BRANDEIS UNIVERSITY

SCHWARZ, GERALD W; *DIFFERENTIAL ANALYSIS AND INVARIANT THEORY (MCS-7902937 A01)*; 24 MONTHS $35,102

BROWN, EDGAR H; *ALGEBRAIC TOPOLOGY (MCS-7902939 A02)*; 12 MONTHS $64,200

LEVINE, HAROLD I; *SINGULARITIES OF SMOOTH MAPS (MCS-8003026 A01)*; 24 MONTHS $54,200

MATSUSAKA, TERUHISA; *ALGEBRA AND ALGEBRAIC GEOMETRY (MCS-8003118 A01)*; 12 MONTHS $44,009

PALAIS, RICHARD S; *GLOBAL ANALYSIS (MCS-8102696)*; 12 MONTHS $51,000

BUCHSBAUM, DAVID A; *ALGEBRA AND ALGEBRAIC GEOMETRY (MCS-8109988)*; 12 MONTHS $60,339

CLARK UNIVERSITY

CLINE, EDWARD; *COHOMOLOGY AND MODULAR REPRESENTATIONS OF GROUPS (MCS-8002573 A01)*; 12 MONTHS $10,355

FIVE COLLEGES INC

BERGER, MELVYN S; *A CONFERENCE ON NONLINEAR GENERALIZATIONS ON MAXWELL EQUATIONS; AMHERST, MASSACHUSETTS; OCTOBER 16-19, 1981 (MCS-8113674*)*; 6 MONTHS $4,100

HARVARD UNIVERSITY

TATE, JOHN T; MUMFORD, DAVID, AND HIRONAKA, HEISUKE; *ALGEBRA, NUMBER THEORY AND ALGEBRAIC GEOMETRY (MCS-7715524 A03)*; 12 MONTHS $114,412

HUBER, PETER J; *INTERACTIVE GRAPHICAL ANALYSIS OF MULTIDIMENSIONAL DATA (MCS-7908685 A02*)*; 12 MONTHS $19,500

SCHMID, WILFRIED; *STUDIES IN REPRESENTATION THEORY (MCS-7913190 A02)*; 12 MONTHS $21,899

JAFFE, ARTHUR M; *MATHEMATICAL PHYSICS (PHY-7916812 A02*)*; 12 MONTHS $50,500

MAZUR, BARRY; *TOPOLOGY AND GEOMETRY (MCS-8006104 A01)*; 12 MONTHS $84,000

MOSTELLER, FREDERICK; *BASIC AND APPLIED STUDIES OF SOCIAL STATISTICAL METHODS (SES-8023644*)*; 12 MONTHS $7,500

GRIFFITHS, PHILLIP A; *COMPLEX ANALYSIS AND ALGEBRAIC GEOMETRY (MCS-8104249)*; 12 MONTHS $60,451

LAZARSFELD, ROBERT K; *CONNECTEDNESS AND SINGULARITIES OF MAPPINGS IN ALGEBRAIC GEOMETRY (MCS-8104760)*; 12 MONTHS $8,922

COLEMAN, ROBERT F; *UNITS IN NUMBER FIELDS (MCS-8104761)*; 24 MONTHS $19,777

HARVARD UNIVERSITY-SCHOOL OF PUBLIC HEALTH

LEVINS, RICHARD; *QUALITATIVE ANALYSIS OF PARTIALLY SPECIFIED SYSTEMS (MCS-8010805 A01*)*; 12 MONTHS $1,951

INDIVIDUAL AWARD

GABAI, DAVID; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8017200 A01)*; 12 MONTHS $22,000

KAHN, JEFFREY N; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114161)*; 12 MONTHS $22,000

GUPTA, RANEE K; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114175)*; 12 MONTHS $22,000

FRIEDMAN, ROBERT; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114179)*; 12 MONTHS $22,000

FARAN, JAMES J; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114180)*; 12 MONTHS $22,000

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LIN, CHIA-CHIA, AND TOOMRE, ALAR; *DYNAMICS OF GALAXIES (MCS-7804888 A04)*; 12 MONTHS $51,500

GREENSPAN, HARVEY P; *PROBLEMS OF FLUID DYNAMICS AND CELL BIOLOGY (MCS-7814521 A02)*; 12 MONTHS $26,000

HELGASON, SIGURDUR; *MATHEMATICAL ANALYSIS (MCS-7818222 A02)*; 12 MONTHS $47,000

DUDLEY, RICHARD M; *PROBABILITY, STATISTICS AND FUNCTIONAL ANALYSIS (MCS-7904474 A02)*; 12 MONTHS $38,000

KLEIMAN, STEVEN L; *ALGEBRAIC GEOMETRY (MCS-7906895 A02)*; 12 MONTHS $45,640

STARK, HAROLD M; *GENERAL CLASS NUMBER PROBLEMS (MCS-7909450 A02)*; 12 MONTHS $35,173

KLEITMAN, DANIEL J, AND SHIFRIN, THEODORE; *INTEGRO-GEOMETRIC INVARIANTS OF COMPLEX SUBMANIFOLDS OF PROJECTIVE SPACES (MCS-8003036 A01)*; 12 MONTHS $10,000

CHERNOFF, HERMAN, AND DU MOUCHEL, WILLIAM H; *STATISTICAL THEORY (MCS-8005483 A01)*; 12 MONTHS $49,800

VERGNE, MICHELE; *LIE GROUPS REPRESENTATIONS AND APPLICATIONS (MCS-8005788 A01)*; 24 MONTHS $37,000

QUILLEN, DANIEL G; *GEOMETRY AND ANALYSIS ON MANIFOLDS (MCS-8006521 A01)*; 12 MONTHS $73,300

AKIN, K, AND KLEITMAN, DANIEL J; *A CHARACTERISTIC-FREE APPROACH TO INVARIANT THEORY AND RESOLUTIONS OF DETERMINANTAL IDEALS (MCS-8102367)*; 24 MONTHS $23,182

STRANG, W GILBERT; *OPTIMAL DESIGN AND THE DUALITY THEORY OF STRUCTURES (MCS-8102371)*; 12 MONTHS $31,908

KLEITMAN, DANIEL J, AND LANG, WILLIAM E; *ALGEBRAIC SURFACES IN CHARACTERISTIC P (MCS-8102372)*; 24 MONTHS $23,000

KLEITMAN, DANIEL J, AND THOMASON, ROBERT W; *ALGEBRAIC VERSUS TOPOLOGICAL K-THEORY (MCS-8102373)*; 24 MONTHS $23,500

UHLMANN, G; *HYPERBOLIC EQUATIONS WITH MULTIPLE CHARACTERISTICS (MCS-8102498)*; 24 MONTHS $24,000

SEGAL, IRVING E; *MATHEMATICAL ANALYSIS OF FIELDS AND PARTICLES (MCS-8104243)*; 12 MONTHS $50,000

PETERSON, FRANKLIN P; *ALGEBRAIC TOPOLOGY (MCS-8104246)*; 12 MONTHS $87,000

LUSZTIG, GEORGE; *REPRESENTATIONS OF SEMISIMPLE GROUPS OVER A FINITE FIELD (MCS-8104265)*; 12 MONTHS $19,800

SACKS, GERALD E; *HIGHER RECURSION THEORY (MCS-8104366)*; 24 MONTHS $54,900

ROSALES, R; *WAVE PROPAGATION, GENERATION AND STABILITY (MCS-8104849)*; 24 MONTHS $27,556

STANLEY, RICHARD; *COMBINATORIAL THEORY (MCS-8104855)*; 12 MONTHS $44,865

KLEITMAN, DANIEL J, AND KAHN, JEFFREY N; *THREE BASIC COMBINATORIAL PROBLEMS AND RELATED QUESTIONS (MCS-8105187)*; 12 MONTHS $10,000

GESSEL, IRA; *ENUMERATIVE COMBINATORICS (MCS-8105188)*; 12 MONTHS $12,400

KOSTANT, BERTRAM; *REPRESENTATION THEORY AND DIFFERENTIAL GEOMETRY (MCS-8105633)*; 12 MONTHS $29,300

NORTHEASTERN UNIVERSITY

SHAH, JAYANT; *STUDYING THE MODULI OF SURFACES (MCS-7903720 A02)*; 12 MONTHS $15,723

KOPELL, NANCY J; *PROBLEMS IN PATTERN FORMATION AND SINGULAR PERTURBATIONS (MCS-8102078)*; 24 MONTHS $29,578

WARGA, JACK; *OPTIMAL CONTROL AND OPTIMIZATION (MCS-8102079*)*; 12 MONTHS $10,044

KING, DONALD R; *IDEALS IN ENVELOPING ALGEBRAS AND CONJUGACY CLASSES OF NILPOTENTS (MCS-8107085)*; 24 MONTHS $18,300

SMITH COLLEGE

DURFEE, ALAN H; *SINGULARITIES OF ALGEBRAIC VARIETIES (MCS-8111857)*; 12 MONTHS $9,500

TUFTS UNIVERSITY

HAHN, MARJORIE G; *OPERATOR-STABLE LAWS ON BANACH SPACES (MCS-8101895)*; 24 MONTHS $26,635

WEISS, RICHARD M; *THE AUTOMORPHISM GROUP OF A GRAPH (MCS-8102011)*; 24 MONTHS $21,294

NITECKI, ZBIGNIEW H; *DYNAMICAL SYSTEMS (MCS-8102122)*; 24 MONTHS $23,300

UNIVERSITY OF LOWELL

MOSES, HARRY E; *THE INVERSE SCATTERING PROBLEM FOR THE THREE-DIMENSIONAL SCHRODINGER EQUATION (MCS-8024640)*; 24 MONTHS $29,862

UNIVERSITY OF MASSACHUSETTS, AMHERST

HUMPHREYS, JAMES; *REPRESENTATIONS OF ALGEBRAIC GROUPS (MCS-7902738 A01)*; 24 MONTHS $30,300

CATTANI, EDUARDO H, AND KAPLAN, AROLDO G; *VARIATION OF HODGE STRUCTURES (MCS-7903099 A03)*; 12 MONTHS $25,966

KNIGHTLY, GEORGE H; *SOME NONLINEAR MATHEMATICAL PROBLEMS IN MECHANICS (MCS-7903555 A02)*; 12 MONTHS $13,653

BERGER, MELVYN S; *NONLINEAR PROBLEMS OF PARTIAL DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS (MCS-7907887 A01)*; 12 MONTHS $19,005

ELLIS, RICHARD S; *MATHEMATICAL PHYSICS AND PROBABILITY (MCS-8002149 A01)*; 12 MONTHS $14,848

ELLIS, RICHARD S; *MATHEMATICAL PHYSICS AND PROBABILITY (MCS-8002149 A02)*; $12,000

GEMAN, DONALD, HOROWITZ, JOSEPH, AND ROSEN, JAY S; *STOCHASTIC PROCESSES AND MATHEMATICAL PHYSICS (MCS-8002940 A01)*; 12 MONTHS $36,193

GARDNER, ROBERT A; *QUALITATIVE BEHAVIOR OF SOLUTIONS OF REACTION-DIFFUSION SYSTEMS (MCS-8101644)*; 24 MONTHS $20,030

MARTINDALE, WALLACE S; *PRIME RINGS (MCS-8102675)*; 12 MONTHS $16,200

UNIVERSITY OF MASSACHUSETTS, BOSTON

VOVAN, TAN; *GLOBAL STRUCTURES OF I-CONVEX SPACES AND MOISHEZON SPACES (MCS-8102266)*; 24 MONTHS $17,700

WORCESTER POLYTECHNIC INSTITUTE

DAVIS, PAUL W; *REGIONAL CONFERENCE ON GRAPH ALGORITHMS; WORCESTER, MASSACHUSETTS; JUNE 15-19, 1981 (MCS-8106172*)*; 6 MONTHS $9,072

MICHIGAN

CALVIN COLLEGE

VENEMA, GERARD A; *GEOMETRIC TOPOLOGY OF PIECEWISE LINEAR MANIFOLDS (MCS-7902661 A01)*; 24 MONTHS $18,000

INDIVIDUAL AWARD

VANDERBEI, ROBERT J; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114163)*; 12 MONTHS $22,000

HUNEKE, CRAIG; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114173)*; 12 MONTHS $22,000

MICHIGAN STATE UNIVERSITY

SHAPIRO, C P; *SEQUENTIAL ALLOCATION WITH APPLICATIONS TO BAYESIAN SIMULTANEOUS ESTIMATION (MCS-8101535)*; 24 MONTHS $18,486

ZINN, JOEL; *LIMIT THEOREMS FOR BANACH SPACE VALUED AND REAL VALUED RANDOM VARIABLES (MCS-8101636)*; 24 MONTHS $22,001

MILLER, RICHARD T; *SURFACE HOMEOMORPHISMS, 3-MANIFOLDS AND TURBULENCE, INDEPENDENTLY (MCS-8101887)*; 24 MONTHS $19,900

CHOW, SHUI-NEE; *THEORY OF BIFURCATION, NONLINEAR OSCILLATIONS AND CHAOTIC BEHAVIOR IN ORDINARY AND DELAY DIFFERENTIAL EQUATIONS (MCS-8102057)*; 24 MONTHS $25,476

ETHIER, STEWART; *INFINITELY-MANY-ALLELES DIFFUSION MODELS (MCS-8102063)*; 24 MONTHS $19,103

FABIAN, VACLAV; *MATHEMATICAL STATISTICS AND PROBABILITY (MCS-8102233)*; 12 MONTHS $14,825

HANDEL, MICHAEL; *HOMEOMORPHISMS OF SURFACES (MCS-8102264)*; 24 MONTHS $17,800

YOUNG, LAI-SANG; *DIFFERENTIABLE DYNAMICAL SYSTEMS (MCS-8115428)*; 12 MONTHS $7,600

AKBULUT, SELMAN; *TOPOLOGY OF REAL ALGEBRAIC VARIETIES (MCS-8116915)*; 12 MONTHS $7,500

UNIVERSITY OF MICHIGAN-ANN ARBOR

TITUS, CHARLES J; *GEOMETRIC ANALYSIS (MCS-7900993 A02)*; 12 MONTHS $28,688

SHIELDS, ALLEN L; *COMPLEX ANALYSIS (MCS-7901713 A03)*; 12 MONTHS $67,230

RAUCH, JEFFREY B; *LINEAR AND NONLINEAR WAVE MOTION (MCS-7901857 A01)*; 24 MONTHS $30,719

HOCHSTER, MELVIN; *COMMUTATIVE RINGS AND ALGEBRAIC GEOMETRY (MCS-8002272 A01)*; 12 MONTHS $68,098

CESARI, LAMBERTO, AND SMOLLER, JOEL A; *AERODYNAMIC AND ELECTROMAGNETIC PROPERTIES OF PLASMAS (MCS-8002337 A01)*; 12 MONTHS $27,881

SMOLLER, JOEL A; *REACTION-DIFFUSION EQUATIONS AND HYPERBOLIC CONSERVATION LAWS (MCS-8002337 A02)*; $16,918

LEWIS, DONALD J; *NUMBER THEORY AND ARITHMETIC GEOMETRY (MCS-8002559 A01)*; 12 MONTHS $82,585

LYNDON, ROGER C; *GROUP THEORY AND COMBINATORICS (MCS-8003027 A01)*; $7,695

LYNDON, ROGER C; *GROUP THEORY AND COMBINATORICS (MCS-8003027 A02)*; 12 MONTHS $59,147

HILL, BRUCE M; *FOUNDATIONS AND APPLICATIONS OF BAYESIAN INFERENCE AND DECISION THEORY (MCS-8026531)*; 24 MONTHS $36,184

PEARCY, CARL M; *OPERATORS ON HILBERT SPACE (MCS-8100726)*; 12 MONTHS $43,734

MUIRHEAD, ROBB J; *MULTIVARIATE ANALYSIS: INFERENCE AND ROBUSTNESS (MCS-8100763)*; 12 MONTHS $14,360

BLASS, ANDREAS R; *LOGICAL STRUCTURE OF GEOMETRIC MORPHISMS OF TOPOI (MCS-8101560)*; 24 MONTHS $26,000

SCOTT, L R; *NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS (MCS-8101631)*; 12 MONTHS $30,938

RATIU, TUDOR S; *FINITE AND INFINITE DIMENSIONAL COMPLETELY INTEGRABLE SYSTEMS (MCS-8101642)*; 12 MONTHS $9,580

ULLMAN, JOSEPH L; *POTENTIAL THEORY AND EXTREMAL POLYNOMIALS (MCS-8101893)*; 12 MONTHS $16,900

WOODROOFE, MICHAEL; *LARGE SAMPLE APPROXIMATIONS IN THE SEQUENTIAL DESIGN OF EXPERIMENTS (MCS-8101897)*; 12 MONTHS $17,646

TAYLOR, B ALAN, AND BURNS, DANIEL M; *ANALYTIC AND GEOMETRIC FUNCTION THEORY (MCS-8102051)*; 12 MONTHS $51,216

KEENER, ROBERT; *SEQUENTIAL DESIGN OF EXPERIMENTS (MCS-8102080)*; 24 MONTHS $20,750

SHIELDS, ALLEN L; *COMPLEX ANALYSIS (MCS-8102106)*; 12 MONTHS $5,580

RAYMOND, FRANK; *TOPOLOGY (MCS-8102469)*; 12 MONTHS $55,400

HOPPE, FRED M; *BRANCHING PROCESSES (MCS-8108689)*; 12 MONTHS $24,021

WAYNE STATE UNIVERSITY

FROHARDT, DANIEL E; *DIRECT CONSTRUCTIONS OF SPORADIC GROUPS (MCS-8102205)*; 12 MONTHS $4,600

WESTERN MICHIGAN UNIVERSITY

FIALKOW, LAWRENCE A; *OPERATORS ON HILBERT SPACE (MCS-7905153 A01)*; 24 MONTHS $24,891

MINNESOTA

CARLETON COLLEGE

GALOVICH, STEVEN; *REGIONAL CONFERENCE IN ORDERINGS AND QUADRATIC FORMS OVER FIELDS; NORTH FIELD, MINNESOTA; AUGUST 10-14, 1981 (MCS-8104817)*; 6 MONTHS $14,500

INDIVIDUAL AWARD

DUMMIT, DAVID S; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114182)*; 12 MONTHS $22,000

UNIVERSITY OF MINNESOTA

JAIN, NARESH C, OREY, STEVEN, AND PRUITT, WILLIAM E; *PROBABILITY THEORY (MCS-7801168 A04)*; 12 MONTHS $106,266

JAIN, NARESH C; *PROBABILITY THEORY (MCS-7801168 A05)*; $16,644

PRIKRY, KAREL L; *PROBLEMS IN SET-THEORETIC MEASURE THEORY, BOOLEAN ALGEBRAS AND INFINITARY COMBINATORICS (MCS-7801525 A01)*; 12 MONTHS $9,280

MILLER, WILLARD; *HARMONIC ANALYSIS, SPECIAL FUNCTIONS AND SEPARATION OF VARIABLES (MCS-7826216 A01)*; 24 MONTHS $35,437

HEJHAL, DENNIS A; *CLASSICAL ANALYSIS AND NUMBER THEORY (MCS-7827377 A02)*; 24 MONTHS $31,383

NITSCHE, JOHANNES C; *MINIMAL SURFACES AND CALCULUS OF VARIATIONS (MCS-7827422 A01)*; $7,802

FABES, EUGENE B, AND LITTMAN, WALTER; *PARTIAL DIFFERENTIAL EQUATIONS AND REAL ANAYLSIS (MCS-7900985 A02)*; 12 MONTHS $44,088

FABES, EUGENE B, AND LITTMAN, WALTER; *PARTIAL DIFFERENTIAL EQUATIONS AND REAL ANALYSIS (MCS-7900985 A03)*; $12,000

POHL, WILLIAM F; *DIFFERENTIAL GEOMETRY (MCS-7901725 A02)*; 12 MONTHS $47,000

MARKUS, LAWRENCE, SELL, GEORGE R, AND SIBUYA, YASUTAKA; *DIFFERENTIAL EQUATIONS AND DYNAMICAL SYSTEMS (MCS-7901998 A03)*; $9,000

MARKUS, LAWRENCE, SELL, GEORGE R, AND SIBUYA, YASUTAKA; *ORDINARY DIFFERENTIAL FUNCTIONAL EQUATIONS AND DYNAMICAL SYSTEMS (MCS-7901998 A04)*; 12 MONTHS $87,113

GULLIVER, ROBERT O; *VARIATIONAL PROBLEMS IN THE GEOMETRY OF SURFACES (MCS-7902032 A02)*; 24 MONTHS $27,800

SERRIN, JAMES B; *PHENOMENOLOGICAL THERMODYNAMICS (MCS-7903535 A02*)*; 12 MONTHS $13,035

HINKLEY, DAVID V; *STATISTICAL METHODS OF DATA ANALYSIS (MCS-7904558 A02)*; 12 MONTHS $23,359

WEINBERGER, HANS F, AND MILLER, WILLARD; *INSTITUTE OF MATHEMATICS AND ITS APPLICATIONS: PHASE I (MCS-7923668)*; 6 MONTHS $100,000

SPERBER, STEVEN; *ARITHMETIC ALGEBRAIC GEOMETRY (MCS-8001865 A01)*; 12 MONTHS $11,045

ARONSON, DONALD G; *STUDIES IN NONLINEAR ANALYSIS (MCS-8002392 A01)*; 12 MONTHS $31,991

BAKELMAN, ILYA, AND SERRIN, JAMES B; *BOUNDARY VALUE PROBLEMS FOR GENERAL N-DIMENSIONAL ELLIPTIC MONGE-AMPERE EQUATIONS (MCS-8002564 A01)*; 12 MONTHS $12,067

KINDERLEHRER, DAVID; *FREE BOUNDARY PROBLEMS, VARIATIONAL INEQUALITIES, AND RELATED TOPICS (MCS-8023354)*; 24 MONTHS $32,610

FESHBACH, MARK; *ALGEBRAIC TOPOLOGY: CHARACTERISTIC CLASSES (MCS-8100758)*; 12 MONTHS $22,400

REICH, EDGAR; *FUNCTIONS OF A COMPLEX VARIABLE AND QUASICONFORMAL MAPPING (MCS-8100760)*; 24 MONTHS $38,597

EATON, MORRIS L; *TOPICS IN MULTIVARIATE STATISTICAL ANALYSIS, STATISTICAL DECISION THEORY AND MULTIVARIATE PROBABILITY INEQUALITIES (MCS-8100762)*; 12 MONTHS $19,940

OLVER, PETER J; *SYMMETRY GROUPS AND INTEGRABLE DIFFERENTIAL EQUATIONS (MCS-8100786)*; 24 MONTHS $20,988

SUDDERTH, WILLIAM D; *TOPICS IN THE FOUNDATIONS OF STATISTICS, FINITELY ADDITIVE PROBABILITY AND ABSTRACT GAMBLING THEORY (MCS-8100789)*; 24 MONTHS $31,107

WEBSTER, SIDNEY M; *REGULARITY AND INVARIANCE PROPERTIES OF BIHOLOMORPHIC TRANSFORMATIONS (MCS-8100793)*; 24 MONTHS $21,204

MARDEN, ALBERT; *RIEMANN SURFACE THEORY AND DISCRETE GROUPS OF MOBIUS TRANSFORMATIONS (MCS-8101633)*; 24 MONTHS $33,490

KENIG, CARLOS E; *HARMONIC ANALYSIS AND ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS IN NON SMOOTH DOMAINS, CLASSICAL FOURIER ANALYSIS (MCS-8101691)*; 24 MONTHS $19,414

ARONSON, DONALD G, AND MC GEHEE, RICHARD P; *COMPUTER-ASSISTED STUDIES OF DYNAMICAL SYSTEMS (MCS-8101700)*; 12 MONTHS $11,220

ELLIS, ROBERT, AND KEYNES, HARVEY; *TOPOLOGICAL DYNAMICS AND DYNAMICAL SYSTEMS (MCS-8102034)*; 12 MONTHS $41,952

STANTON, DENNIS; *COMBINATORICS AND SPECIAL FUNCTIONS (MCS-8102237)*; 24 MONTHS $20,865

BERRY, DONALD A; *DECISIONS INVOLVING BANDIT PROCESSES: DYNAMIC ALLOCATION OF STOCHASTIC PROCESSES (MCS-8102477)*; 12 MONTHS $13,450

WEINBERGER, HANS F; *ANALYSIS OF SOME MODELS IN MATHEMATICAL BIOLOGY AND MECHANICS (MCS-8102609)*; 12 MONTHS $33,473

PRIKRY, KAREL L; *PROBLEMS IN SET THEORY, MEASURE THEORY AND BOOLEAN ALGEBRAS (MCS-8102700)*; 24 MONTHS $29,743

WEINBERGER, HANS F, AND MILLER, WILLARD; *INSTITUTE OF MATHEMATICS AND ITS APPLICATIONS: PHASE II (MCS-8120789)*; 12 MONTHS $119,141

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

KALTON, NIGEL J; *ON NON-LOCALLY CONVEX LINEAR METRIC SPACES (MCS-8001852 A01)*; 12 MONTHS $13,103

CONLON, JOSEPH G; *REFINEMENTS OF THOMAS - FERMI THEORY (MCS-8100761)*; 24 MONTHS $13,933

UNIVERSITY OF MISSOURI, ROLLA

KIEFFER, JOHN C; *SOME PROBLEMS ON CHANNELS AND SOURCES IN INFORMATION THEORY (ECS-7821335 A01*)*; 24 MONTHS $12,868

WASHINGTON UNIVERSITY

TAIBLESON, MITCHELL, AND WEISS, GUIDO; *HARMONIC ANALYSIS ON LIE GROUPS AND SPACES OF HOMOGENEOUS TYPE (MCS-7903122 A02)*; 12 MONTHS $35,197

SILVERSTEIN, MARTIN L; *STOCHASTIC PROCESSES (MCS 8002821 A01)*; 12 MONTHS $15,218

WRIGHT, DAVID; *CHARACTERIZING POLYNOMIAL RINGS AND AFFINE N - SPACE (MCS-8002844 A01)*; 12 MONTHS $10,659

MORROW, GREGORY J; *INVARIANCE PRINCIPLES IN PROBABILITY THEORY (MCS-8002874 A01)*; 12 MONTHS $8,868

KORANYI, ADAM; *FUNCTION THEORY ON SYMMETRIC SPACES (MCS-8002977 A01)*; 12 MONTHS $15,442

BOOTHBY, WILLIAM M, AND ELLIOTT, DAVID L; *CONTROLLABILITY AND OBSERVABILITY FOR NONLINEAR SYSTEMS (ECS-8021056*)*; 24 MONTHS $31,000

BLANK, BRIAN; *BOUNDARY BEHAVIOR OF SEMISIMPLE LIE GROUP REPRESENTATIONS (MCS-8102221)*; 24 MONTHS $17,744

BAERNSTEIN, ALBERT; *SOME PROBLEMS IN CLASSICAL ANALYSIS (MCS-8102475)*; 24 MONTHS $31,640

JENSEN, GARY R; *CONGRUENCE AND DEFORMATION OF REAL HYPERSURFACES IN COMPLEX PROJECTIVE SPACE (MCS-8103370)*; 24 MONTHS $24,000

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

WIEGAND, ROGER A; *TORSION-FREE MODULES AND ALGEBRAIC SURFACES (MCS-8003268 A01)*; 24 MONTHS $24,998

GILFEATHER, FRANK L, AND LARSON, DAVID R; *OPERATOR ALGEBRAS (MCS-8003617 A01)*; 12 MONTHS $20,300

TONG, YUNG L; *SOME NEW PROBABILITY INEQUALITIES IN MULTIVARIATE DISTRIBUTIONS AND THEIR APPLICATIONS (MCS-8100775)*; 24 MONTHS $24,550

NEW HAMPSHIRE

DARTMOUTH COLLEGE

PALMER, JOHN N, AND TRACY, CRAIG A; *LATTICE MODEL CALCULATIONS OF SCALING FUNCTIONS (MCS-8102536)*; 12 MONTHS $20,902

PROSSER, REESE T; *PATH INTEGRALS (MCS-8103409)*; 12 MONTHS $14,930

AVRAHAM, URI; *SOME CONSISTENCY PROBLEMS IN INFINITE COMBINATORICS (MCS-8105410)*; 12 MONTHS $8,100

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

NORDGREN, ERIC A, AND HADWIN, DONALD W; *PROBLEMS IN OPERATOR THEORY (MCS-8102497)*; 12 MONTHS $32,700

NEW JERSEY

INDIVIDUAL AWARD

MARDEN, JOHN I; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8017152 A01)*; 12 MONTHS $22,000

RUBIN, KARL C; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114167)*; 12 MONTHS $22,000

GRAHAM, C ROBIN; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114177)*; 12 MONTHS $22,000

INSTITUTE FOR ADVANCED STUDY

BOREL, ARMAND, LANGLANDS, ROBERT P, MILNOR, JOHN W, AND CHANDRA, HARISH; *SEMINARS CONCERNING BASIC RESEARCH IN MATHEMATICS: ALGEBRA, ANALYSIS, AND TOPOLOGY (MCS-7718723 A05)*; $71,700

BOMBIERI, ENRICO; *SPECIAL YEAR IN ALGEBRAIC GEOMETRY (MCS-8103365*)*; 12 MONTHS $100,000

BOMBIERI, ENRICO, BOREL, ARMAND, MILNOR, JOHN W, AND YAU, SHING TUN; *BASIC RESEARCH IN MATHEMATICS: ALGEBRA, ANALYSIS, TOPOLOGY (MCS-8108814*)*; 12 MONTHS $400,000

PRINCETON UNIVERSITY

SIMON, BARRY M; *MATHEMATICAL PHYSICS (MCS-7801885 A05*)*; 12 MONTHS $12,187

LIEB, ELLIOTT; *STATISTICAL MECHANICS AND THE QUANTUM AND CLASSICAL MANY BODY PROBLEM (PHY-7925390 A03*)*; 12 MONTHS $32,804

BROWDER, WILLIAM, AND HSIANG, WU-CHUNG; *MANIFOLDS AND ALGEBRAIC TOPOLOGY (MCS-7902017 A02)*; 12 MONTHS $159,200

KOHN, JOSEPH J; *PARTIAL DIFFERENTIAL EQUATIONS (MCS-7908690 A02)*; 12 MONTHS $128,074

KOHN, JOSEPH J; *PARTIAL DIFFERENTIAL EQUATIONS (MCS-7908690 A03)*; $9,906

KUHN, HAROLD W; *MATHEMATICAL ECONOMICS, PROGRAMMING, AND COMBINATORIAL PROBLEMS (MCS-7910027 A02)*; 12 MONTHS $54,620

STEIN, ELIAS M; *HARMONIC ANALYSIS AND DIFFERENTIAL EQUATIONS (MCS-8003072 A02)*; 12 MONTHS $83,471

YAJIMA, KENJI; *MATHEMATICAL PHYSICS (MCS-8023339)*; 24 MONTHS $22,476

GUNNING, ROBERT C, AND FORNAESS, JOHN E; *PROBLEMS IN COMPLEX ANALYSIS (MCS-8100675)*; 12 MONTHS $66,153

DWORK, BERNARD M, AND SHIMURA, GORO; *ANALYTIC AND ALGEBRAIC METHODS IN GEOMETRY AND NUMBER THEORY (MCS-8100744)*; 12 MONTHS $156,200

NELSON, EDWARD, AND ALMGREN, FREDERICK J; *APPLICATIONS OF FUNCTIONAL ANALYSIS AND GEOMETRIC MEASURE THEORY (MCS-8101877)*; 12 MONTHS $73,800

JEWELL, NICHOLAS P; *THE CANONICAL AND FUNCTIONAL ANALYSIS OF TIME SERIES (MCS-8102530)*; 24 MONTHS $27,108

MAY, ROBERT M; *REGULATION OF NATURAL POPULATIONS BY INFECTIOUS DISEASES (DEB-8102783*)*; 24 MONTHS $45,000

RUTGERS UNIVERSITY-BUSCH CAMPUS

STRAWDERMAN, WILLIAM E; *ADMISSIBLE STATISTICAL PROCEDURES (MCS-7824167 A03)*; $8,947

GUNDY, RICHARD F; *MARTINGALE THEORY AND PROBLEMS IN ANALYSIS (MCS-8102073)*; 12 MONTHS $31,615

SINGH, KESAR; *ASYMPTOTIC STUDIES OF ROBUST AND OTHER STATISTICAL METHODS (MCS-8102341)*; 24 MONTHS $14,832

CHERLIN, GREGORY; *STRUCTURE OF STABLE GROUPS AND SOME DECIDABILITY PROBLEMS (MCS-8102383)*; 24 MONTHS $19,251

LO, ALBERT Y; *BAYESIAN NONPARAMETRIC STATISTICAL PROCEDURES AND RELATED TOPICS (MCS-8102523)*; 24 MONTHS $17,344

COHEN-CORWIN, AMY; *NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS (MCS-8102668)*; 12 MONTHS $10,978

SCHEFFER, VLADIMIR; *BOUNDARY REGULARITY OF SOLUTIONS TO THE NAVIER-STOKES EQUATIONS (MCS-8102737)*; 12 MONTHS $8,192

RUTGERS UNIVERSITY-CAMDEN CAMPUS

KAREL, MARTIN L; *AUTOMORPHIC FORMS (MCS-8103415)*; 24 MONTHS $15,164

RUTGERS UNIVERSITY-DOUGLASS COLLEGE

LEPOWSKY, JAMES, AND WILSON, ROBERT L; *LIE ALGEBRAS (MCS-8003000 A01)*; $7,728

RUTGERS UNIVERSITY

SUSSMANN, HECTOR J; *MATHEMATICS AND APPLIED ASPECTS OF SYSTEMS THEORY (MCS-7802443 A03)*; 12 MONTHS $23,349

COHEN, ARTHUR, AND STRAWDERMAN, WILLIAM E; *ADMISSIBLE STATISTICAL PROCEDURES (MCS-7824167 A02)*; 12 MONTHS $34,804

WALLACH, NOLAN R; *GEOMETRY AND REPRESENTATION THEORY (MCS-7903153 A02)*; 12 MONTHS $19,069

VASCONCELOS, WOLMER V; *HOMOLOGY AND ARITHMETIC OF THE CONORMAL MODULE (MCS-7903175 A01)*; 24 MONTHS $32,153

GOODMAN, ROE; *ANALYSIS ON LIE GROUPS (MCS-7903223 A01)*; 24 MONTHS $32,095

MOCK, MICHAEL S; *DIFFERENTIAL EQUATIONS AND NUMERICAL ANALYSIS (MCS-7903236 A01)*; 24 MONTHS $28,410

PETRIE, TED E; *SMOOTH ACTIONS OF COMPACT LIE GROUPS (MCS-7903234 A02)*; 12 MONTHS $20,463

BERK, ROBERT H, AND SACKS, JEROME; *TOPICS IN STATISTICAL THEORY (MCS-8001789 A01)*; 12 MONTHS $46,615

LEPOWSKY, JAMES, AND WILSON, ROBERT L; *LIE ALGEBRAS (MCS-8003000 A02)*; 12 MONTHS $25,752

PETRYSHYN, WALTER V; *NONLINEAR FUNCTIONAL ANALYSIS AND ITS APPLICATIONS (MCS-8009008 A01)*; 12 MONTHS $18,500

HELL, PAVOL T; *MAPPINGS AND ARRANGEMENTS OF GROUPS (MCS-8009011 A01)*; 12 MONTHS $12,347

WALSH, BERTRAM J; *LINEAR OPERATORS ON HARMONIC FIELDS AND FUNCTIONS (MCS-8003077 A01)*; 12 MONTHS $17,582

MUCKENHOUPT, BENJAMIN, AND WHEEDEN, RICHARD L; *NORM INEQUALITIES FOR CLASSICAL OPERATORS (MCS-8003098 A01)*; 12 MONTHS $34,476

TAYLOR, JEAN E; *CRYSTALLINE VARIATIONAL PROBLEMS (MCS-8003583 A01)*; 12 MONTHS $11,195

TEICHER, HENRY; *ITERATED LOGARITHM LAWS FOR QUADRATIC FORMS AND MARTINGALES (MCS-8005481 A01)*; 24 MONTHS $39,324

SHANESON, JULIUS L; *ALGEBRAIC AND DIFFERENTIAL TOPOLOGY (MCS-8026053)*; 12 MONTHS $69,000

SHELSTAD, DIANA; *LOCAL HARMONIC ANALYSIS AND REPRESENTATIONS (MCS-8102392)*; 12 MONTHS $9,088

GORENSTEIN, DANIEL; *FINITE SIMPLE GROUPS (MCS-8103394)*; 12 MONTHS $42,926

SIMS, CHARLES C; *GROUP-THEORETIC ALGORITHMS (MCS-8102431)*; 12 MONTHS $21,136

TREVES, FRANCOIS J; *LINEAR PARTIAL DIFFERENTIAL EQUATIONS (MCS-8102495)*; 12 MONTHS $19,307

SAKS, MICHAEL; *SUBSET COLLECTIONS EXHIBITING VARIOUS DUALITY PROPERTIES (MCS-8102448)*; 24 MONTHS $17,158

WEIBEL, CHARLES A; *ALGEBRAIC K-THEORY (MCS-8103753)*; 24 MONTHS $17,158

MITCHELL, BARRY M; *MONOIDAL CATEGORY THEORY (MCS-8102754)*; 24 MONTHS $31,679

WILSON, ROBERT L; *CONFERENCE ON LIE ALGEBRAS AND RELATED TOPICS; NEW BRUNSWICK, NEW JERSEY, MAY 29-31, 1981 (MCS-8108415)*; 6 MONTHS $4,868

STEVENS INSTITUTE OF TECHNOLOGY

TRETKOFF, MARVIN D; *QUADRATIC PERIODS OF ABELIAN INTEGRALS AND FERMAT HYPERSURFACES (MCS-8103453)*; 12 MONTHS $7,471

NEW MEXICO

NEW MEXICO STATE UNIVERSITY

SHERMAN, CLAYTON C; *HIGHER ALGEBRAIC K-THEORY (MCS-7903084 A01)*; 24 MONTHS $18,282

WALKER, ELBERT A; *ABELIAN GROUPS (MCS-8003060 A01)*; 12 MONTHS $56,010

UNIVERSITY OF NEW MEXICO

STEINBERG, STANLY; *SYMBOLIC METHODS IN PARTIAL DIFFERENTIAL EQUATIONS (MCS-8102683*)*; 24 MONTHS $19,972

FEGAN, HOWARD D, AND STONE, ALEXANDER P; *CONFERENCE ON EXTERIOR DIFFERENTIAL SYSTEMS AND THEIR APPLICATIONS; ALBUQUERQUE, NEW MEXICO; JANUARY 4-8, 1982. (MCS-8104951*)*; 12 MONTHS $10,200

NEW YORK

BROOKLYN COLLEGE

SPRUCK, JOEL; *VARIATIONAL PROBLEMS IN GEOMETRY AND PHYSICS (MCS-7902658 A01)*; 24 MONTHS $30,600

MATE, ATTILA; *ANALYSIS, LOGIC, AND COMBINATORICS (MCS-8100673)*; 12 MONTHS $14,633

MCALOON, KENNETH; *ARITHMETIC THEORIES AND INCOMPLETENESS PHENOMENA (MCS-8102854*)*; 24 MONTHS $10,000

CITY COLLEGE

BAUMSLAG, GILBERT; *FINITELY PRESENTED GROUPS (MCS-8103367)*; 12 MONTHS $21,800

CLARKSON COLLEGE OF TECHNOLOGY

ABLOWITZ, MARK J, KAUP, DAVID J, AND NEWELL, ALAN C; *NONLINEAR WAVE MOTION (MCS-7903498 A02)*; 12 MONTHS $23,796

GLASSER, M LAWRENC; *ELLIPTIC INTEGRALS, LATTICE SUMS AND THEIR APPLICATIONS (MCS-8021280*)*; 12 MONTHS $6,212

BOUNTIS, TASSOS C; *PERIODIC SOLUTIONS OF DYNAMICAL SYSTEMS (MCS-8025571)*; 12 MONTHS $10,850

COLLEGE AT PLATTSBURGH

FLEURY, PATRICK J; *A SYMPOSIUM ON RECENT ADVANCES IN NON-COMMUTATIVE RING THEORY, PLATTSBURGH, NEW YORK, APRIL 23-25, 1981 (MCS-8016551)*; 6 MONTHS $2,000

COLUMBIA UNIVERSITY

BERS, LIPMAN, AND KURANISHI, MASATAKE; *FUNCTIONS OF ONE AND SEVERAL COMPLEX VARIABLES (MCS-7827119 A02)*; 12 MONTHS $90,899

JACQUET, HERVE; *REPRESENTATION THEORY (MCS-7901712 A02)*; 12 MONTHS $25,074

BIRMAN, JOAN S, MOISHEZON, BORIS, AND MORGAN, JOHN W; *ALGEBRAIC AND GEOMETRIC TOPOLOGY (MCS-7904715 A03)*; 12 MONTHS $100,000

ROBBINS, HERBERT E; *PROBABILITY THEORY AND MATHEMATICAL STATISTICS (MCS-7905811 A02)*; 12 MONTHS $72,000

ROBBINS, HERBERT E; *PROBABILITY THEORY AND MATHEMATICAL STATISTICS (MCS-7905811 A03*)*; $9,620

BASS, HYMAN, GALLAGHER, PATRICK, AND KOLCHIN, ELLIS R; *NUMBER THEORY, ALGEBRA, AND ALGEBRAIC GEOMETRY (MCS-8005802 A02)*; $9,000

BASS, HYMAN, GALLAGHER, PATRICK, AND KOLCHIN, ELLIS R; *NUMBER THEORY, ALGEBRA, AND ALGEBRAIC GEOMETRY (MCS-8005802 A03)*; 12 MONTHS $143,645

JORGENSEN, TROELS; *FUNCTIONS OF A COMPLEX VARIABLE (MCS-8101732)*; 12 MONTHS $18,000

GUTKIN, EUGENE; *REPRESENTATIONS OF LIE GROUPS AND INTEGRABLE QUANTUM SYSTEMS (MCS-8101739)*; 24 MONTHS $23,534

MORRISON, IAN; *MODULI PROBLEMS IN ALGEBRAIC GEOMETRY (MCS-8101907)*; 24 MONTHS $23,200

DERMAN, CYRUS, AND SCHECHNER, ZVI; *MATHEMATICAL THEORY OF RELIABILITY: RANDOM FAILURE RATES AND OPTIMAL DISTRIBUTION OF LOAD (MCS-8102075)*; 12 MONTHS $34,003

KARATZAS, IOANNIS; *OPTIMAL STOCHASTIC CONTROL OF DIFFUSION PROCESSES (MCS-8103435*)*; 24 MONTHS $15,620

CORNELL UNIVERSITY

DYNKIN, EUGENE B, KESTEN, HARRY, AND SPITZER, FRANK L; *PROBABILITY THEORY (MCS-7703543 A05)*; 12 MONTHS $74,692

EARLE, CLIFFORD J, AND FUCHS, W H J; *REAL AND COMPLEX ANALYSIS (MCS-7800680 A05)*; 12 MONTHS $48,349

BROWN, LAWRENCE D, AND FARRELL, ROGER H; *STATISTICS (MCS-7824175 A03)*; $12,000

PAYNE, LAWRENCE E; *DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS (MCS-7919358 A01)*; 12 MONTHS $38,019

NERODE, ANIL, AND MORLEY, MICHAEL D; *MATHEMATICAL LOGIC (MCS-8003016 A01)*; 12 MONTHS $47,601

HWANG, J T; *THEORETICAL STATISTICS (MCS-8003568 A01)*; 24 MONTHS $20,472

HOLMES, PHILIP J; *QUALITATIVE ANALYSIS OF DYNAMICAL PROBLEMS IN NONLINEAR MECHANICS (MEA-8017570*)*; 12 MONTHS $10,000

ROSENBERG, ALEX, AND CHASE, STEPHEN U; *ALGEBRA AND ALGEBRAIC NUMBER THEORY (MCS-8102144)*; 12 MONTHS $112,000

GROSS, LEONARD; *ANALYSIS OF FERMION FIELDS (MCS-8102147)*; 12 MONTHS $17,925

LUCAS, WILLIAM F, AND BILLERA, LOUIS J; *GAME THEORY AND COMBINATORIAL ASPECTS OF OPTIMIZATION (MCS-8102953)*; 12 MONTHS $50,000

CASELLA, GEORGE; *IMPROVED ESTIMATION IN LINEAR MODELS (MCS-8102541)*; 24 MONTHS $16,941

FISHER, MICHAEL E; *DIFFERENTIAL APPROXIMANTS FOR SINGULAR FUNCTIONS OF TWO OR MORE VARIABLES AND THEIR APPLICATION (MCS-8105635*)*; 24 MONTHS $113,015

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

BROWN, LAWRENCE D, AND FARRELL, ROGER H; *MATHEMATICAL STATISTICS (MCS-7824175 A02)*; 12 MONTHS $61,064

BRAMBLE, JAMES H; *NUMERICAL ANALYSIS AND DIFFERENTIAL EQUATIONS (MCS-7827003 A02)*; 12 MONTHS $60,762

TODD, MICHAEL J; *SPECIAL STRUCTURE IN SIMPLICIAL ALGORITHMS (ECS-7921279 A01*)*; 12 MONTHS $14,617

LEVIN, SIMON A; *MATHEMATICAL THEORIES OF POPULATION DYNAMICS AND COMMUNITY STRUCTURE (MCS-8001618 A01*)*; 12 MONTHS $17,000

SPEH, BIRGIT; *ANALYSIS ON SEMISIMPLE GROUPS (MCS-8001854 A02)*; 12 MONTHS $25,596

BERSTEIN, ISRAEL, AND LIVESAY, G R; *TOPOLOGY (MCS-8004035 A01)*; 12 MONTHS $90,800

ROTHAUS, OSCAR S; *REAL ANALYSIS (MCS-8100734)*; 12 MONTHS $9,510

CUNY GRADUATE SCHOOL AND UNIVERSITY CENTER

AUSLANDER, LOUIS; *HARMONIC ANALYSIS ON 2-STEP NILMANIFOLDS (MCS-7903080 A02)*; 12 MONTHS $21,901

CHAVEL, ISAAC, AND FELDMAN, EDGAR A; *ANALYSIS IN THE LARGE (MCS-8102500)*; 12 MONTHS $34,800

FORDHAM UNIVERSITY

SINGER, WILLIAM M; *INVARIANT THEORY OF GLS (F2) AND THE ADAMS SPECTRAL (MCS-8101702)*; 24 MONTHS $26,466

HOFSTRA UNIVERSITY

HASTINGS, HAROLD M; *GEOMETRIC APPLICATIONS OF STEENROD HOMOTOPY THEORY (MCS-8102053)*; 24 MONTHS $21,500

INDIVIDUAL AWARD

NEDELMAN, JERRY; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8017155 A01)*; 12 MONTHS $22,000

TEMPLE, JOHN B; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8017157 A01)*; 12 MONTHS $22,000

GREENLEAF, ALLAN T; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114176)*; 12 MONTHS $22,000

NEW YORK UNIVERSITY

JOHN, FRITZ; *RESEARCH IN MATHEMATICAL PHYSICS (MCS-7900812 A02)*; 12 MONTHS $33,000

NIRENBERG, LOUIS; *DIFFERENTIAL EQUATIONS AND PROBABILITY (MCS-7900813 A03)*; 12 MONTHS $250,400

BERMAN, SIMEON M; *PROBLEMS IN STOCHASTIC PROCESSES (MCS-7902090 A02)*; 12 MONTHS $12,550

TRUBOWITZ, EUGENE, AND DEIFT, PERCY A; *VECTOR BUNDLES AND INTEGRABLE PARTICLE SYSTEMS ASSOCIATED WITH LINEAR ORDINARY DIFFERENTIAL OPERATORS AND APPLICATIONS TO NONLINEAR WAVES (MCS-8002561 A01)*; 12 MONTHS $18,750

VARADHAN, SRINIVASA S, AND DONSKER, MONROE; *MARKOV PROCESSES (MCS-8002568 A01)*; 12 MONTHS $51,400

CAPPELL, SYLVAIN E; *TOPOLOGICAL AND RELATED STRUCTURES (MCS-8002925 A01)*; 12 MONTHS $18,900

SPENCER, THOMAS; *RIGOROUS ANALYSIS AT CRITICAL PHENOMENA IN STATISTICAL MECHANICS (MCS-8100417*)*; 12 MONTHS $12,500

CAFFARELLI, LUIS; *PROBLEMS IN THE THEORY OF PHASE CHANGES (MCS-8100802)*; 12 MONTHS $15,926

GREENLEAF, FREDERICK P; *FUNCTIONAL ANALYSIS AND GEOMETRY OF GROUPS (MCS-8101726)*; 24 MONTHS $27,086

BAZER, JACK; *MULTIPLE SCATTERING (MCS-8104243)*; 24 MONTHS $58,900

VARADHAN, SRINIVASA S; *CONFERENCE ON MATHEMATICAL FRONTIERS AND THE PHYSICAL WORLD; COURANT INSTITUTE; OCTOBER 30-31, 1981 (SNS-8109183)*; 6 MONTHS $5,000

VARADHAN, SRINIVASA S; *POST DOCTORAL PROGRAM IN ANALYSIS AND APPLIED MATHEMATICS (MCS-8117526)*; 12 MONTHS $110,000

POLYTECHNIC INSTITUTE OF NEW YORK

HOCHSTADT, HARRY; *INVERSE PROBLEMS FOR HILL'S EQUATION (MCS-8103373)*; 12 MONTHS $34,335

SIBNER, LESLEY M; *REGULARITY FOR CERTAIN ELLIPTIC SYSTEMS (MCS-8103403)*; 24 MONTHS $27,000

DRENICK, RUDOLF F, AND KOZIN, FRANK; *10TH IFIP CONFERENCE ON SYSTEM MODELLING AND OPTIMIZATION; NEW YORK, NEW YORK; AUGUST 31 - SEPTEMBER 4, 1981 (MCS-8117405)*; 6 MONTHS $4,500

QUEENS COLLEGE

DODZIUK, JOZEF; *ANALYSIS ON OPEN MANIFOLDS (MCS-8024276)*; 24 MONTHS $26,600

RENSSELAER POLYTECHNIC INSTITUTE

HOLMES, MARK H; *MATHEMATICAL PROBLEMS ARISING FROM HYDROELASTIC SYSTEMS (MCS-8102129*)*; 12 MONTHS $11,630

ECKER, JOSEPH G, AND LEMKE, CARLTON E; *MATHEMATICAL PROGRAMMING (MCS-8102141)*; 12 MONTHS $40,000

ISAACSON, DAVID; *NUMERICAL ANALYSIS AND CRITICAL PHENOMENA (MCS-8102436)*; 12 MONTHS $13,950

ODELL, GARRETT M, AND SEGEL, LEE A; *THEORIES OF BIOLOGICAL MOTION AND PATTERN, AND THEIR CONTROL (MCS-8103640*)*; 12 MONTHS $24,500

ROCKEFELLER UNIVERSITY

CASE, KENNETH M, COHEN, E G D, AND KAC, MARK; *NONLINEAR PROBLEMS IN MATHEMATICAL PHYSICS (MCS-8017781)*; 12 MONTHS $41,524

STATE UNIVERSITY AT ALBANY

HABOUSH, WILLIAM; *REPRESENTATIONS OF CHEVALLEY GROUPS OVER FIELDS OF CHARACTERISTIC P AND HOMOGENEOUS SPACES OVER FIELDS OF CHARACTERISTIC O (MCS-7904468 A01)*; 12 MONTHS $11,088

JENKINS, JOE W; *ANALYSIS ON LIE GROUPS (MCS-8100781)*; 24 MONTHS $34,803

FRIEDMAN, NATHANIEL; *ERGODIC THEORY: FLOWS AND INDEPENDENT SEQUENCES (MCS-8102101)*; 24 MONTHS $33,441

RANGE, ROLF M; *CAUCHY-RIEMANN EQUATIONS IN SEVERAL COMPLEX VARIABLES (MCS-8102216)*; 12 MONTHS $12,809

STATE UNIVERSITY AT BINGHAMTON

PIXTON, DENNIS G; *DIFFERENTIABLE DYNAMICAL SYSTEMS (MCS-7902765 A01)*; 24 MONTHS $22,200

HANSON, DAVID L; *NON-STANDARD STOCHASTIC APPROXIMATION (MCS-8100740)*; 12 MONTHS $31,168

GEOGHEGAN, ROSS; *PROBLEMS IN ALGEBRAIC TOPOLOGY ARISING OUT OF SHAPE, INFINITE-DIMENSIONAL TOPOLOGY AND FIXED POINT THEORY (MCS-8101538)*; 24 MONTHS $25,941

ORBAN, JOHN E; *CALIBRATION METHODS FOR CHEMICAL ASSAY (MCS-8101672)*; 12 MONTHS $8,865

SMITH, JUSTIN R; *ALGEBRAIC TOPOLOGY (MCS-8116614)*; 24 MONTHS $19,000

STATE UNIVERSITY AT BUFFALO

PIECH, M ANN; *DIFFERENTIAL OPERATORS ON ABSTRACT WIENER SPACES AND ON RIEMANNIAN-WIENER MANIFOLDS (MCS-7903220 A02)*; 12 MONTHS $17,221

OLSEN, CATHERINE L; *OPERATOR THEORY (MCS-7903222 A01)*; 24 MONTHS $27,351

LAWVERE, F WILLIAM, ISBELL, JOHN R, SCHANUEL, STEPHEN, AND DUSKIN, JOHN W; *TOPICS IN ALGEBRA (MCS-7904163 A02)*; $9,000

COBURN, LEWIS A; *OPERATOR THEORY AND FUNCTIONAL ANALYSIS (MCS-8002693 A01)*; 12 MONTHS $19,200

HASTINGS, STUART P; *SOME NONLINEAR DIFFERENTIAL EQUATIONS OF APPLIED MATHEMATICS (MCS-8101891)*; 12 MONTHS $18,689

COWEN, MICHAEL; *EQUIVALENCE IN OPERATOR THEORY AND COMPLEX DIFFERENTIAL GEOMETRY (MCS-8102021)*; 24 MONTHS $30,000

ISBELL, JOHN R; *ALGEBRA AND TOPOS THEORY (MCS-8102452)*; 12 MONTHS $57,500

WAN, YIEH-HEI; *BIFURCATION ANALYSIS OF A TRACTION PROBLEM IN THREEDIMENSIONAL ELASTICITY (MCS-8102463)*; 24 MONTHS $24,925

KAZARINOFF, NICHOLAS D, AND MOLLENDORF, JOSEPH C; *ANALYSIS OF MULTIPLE STEADY STATES IN NATURAL CONVECTION (MCS-8106657)*; 12 MONTHS $21,363

STATE UNIVERSITY AT STONY BROOK

CHARLAP, LEONARD S, AND PHILLIPS, ANTHONY V; *TOPOLOGY AND MANIFOLDS (MCS-7905795 A02)*; 12 MONTHS $110,000

SPENCER, JOEL; *COMBINATORIAL ANALYSIS (MCS-8001583 A01)*; $9,160

HILL, C DENSON; *COMPLEXES OF PARTIAL DIFFERENTIAL EQUATIONS AND CR STRUCTURES (MCS-8003411 A01)*; $11,998

SAH, CHIH-HAN; *ALGEBRA AND NUMBER THEORY (MCS-8003600 A01)*; 12 MONTHS $28,689

SAH, CHIH-HAN; *ALGEBRA AND NUMBER THEORY (MCS-8003600 A02)*; $19,967

ZEMANIAN, ARMEN H; *DYNAMIC MODELS OF PERIODIC MARKETING NETWORKS (MCS-8020386*)*; 36 MONTHS $26,600

DOUGLAS, RONALD G, AND PINCUS, JOEL D; *PURE & APPLIED OPERATOR THEORY (MCS-8108399)*; 12 MONTHS $75,016

KRA, IRWIN, MASKIT, BERNARD, AND LAUFER, HENRY; *DEFORMATION OF COMPLEX STRUCTURES (MCS-8102631)*; 12 MONTHS $62,000

TUCKER, ALAN C; *PERFECT GRAPHS, CIRCULAR-ARC GRAPHS, AND ASSOCIATED ALGORITHMS (MCS-8108701*)*; 24 MONTHS $20,485

GROMOLL, DETLEF, AND CHEEGER, JEFF; *DIFFERENTIAL GEOMETRY (MCS-8102758)*; 12 MONTHS $65,000

SYRACUSE UNIVERSITY

ANDERSON, DOUGLAS R; *GROUPS OF HOMEOMORPHISMS, EQUIVARIANT TORSION INVARIANTS, AND FINITE TRANSFORMATION GROUPS (MCS-8003957 A01)*; 12 MONTHS $18,120

BELNA, CHARLES L; *ANALYTIC FUNCTION THEORY AND POTENTIAL-THEORETIC THINNESS (MCS-8105054)*; 12 MONTHS $12,623

EDREI, ALBERT; *THE THEORY OF ENTIRE AND MEROMORPHIC FUNCTIONS (MCS-8102123)*; 12 MONTHS $18,200

COX, J T; *STOCHASTIC PROCESSES (MCS-8102131)*; 24 MONTHS $20,022

WATERMAN, DANIEL; *A SYMPOSIUM IN REAL ANALYSIS; SYRACUSE, NEW YORK; JULY 9-12, 1981 (MCS-8102231)*; 6 MONTHS $5,000

UNIVERSITY OF ROCHESTER

HARPER, JOHN R; *HOMOTOPY THEORY OF FINITE H-SPACES AND RELATED TOPICS (MCS-7905807 A01)*; 24 MONTHS $42,902

GANS, ROGER F; *TRANSITIONAL BOUNDARY LAYERS IN ROTATING FLUIDS (MCS-8019566)*; 12 MONTHS $12,762

WELLNER, JON A; *LARGE SAMPLE THEORY FOR EMPIRICAL AND QUANTILE PROCESSES (MCS-8102731)*; 24 MONTHS $21,362

PIZER, ARNOLD K; *QUATERNION ALGEBRAS, THETA SERIES AND MODULAR FORMS (MCS-8103466)*; 24 MONTHS $24,964

KEMPERMAN, JOHANNES H; *PROBABILITY AND ANALYSIS (MCS-8103470)*; 24 MONTHS $58,037

YESHIVA UNIVERSITY

BERGER, CHARLES A; *OPERATOR THEORY AND COMPLEX VARIABLES (MCS-8102229)*; 24 MONTHS $33,755

NORTH CAROLINA

DUKE UNIVERSITY

SHOENFIELD, JOSEPH R; *FOUNDATIONS OF MATHEMATICS (MCS-7909019 A01)*; 24 MONTHS $31,810

LEVI, MARK; *DYNAMICAL SYSTEMS (MCS-8101643)*; 12 MONTHS $10,816

ALLARD, WILLIAM K; *THE REGULARITY THEORY OF PARAMETRIC ELLIPTIC VARIATIONAL PROBLEMS (MCS-8102549)*; 24 MONTHS $29,800

INDIVIDUAL AWARD

WHITE, BRIAN; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114163)*; 12 MONTHS $22,000

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

KELLEY, CARL T; *RADIATIVE TRANSFER IN INHOMOGENEOUS SLABS (MCS-7902659 A01)*; 24 MONTHS $20,513

PUTCHA, MOHAN S; *LINEAR ALGEBRAIC SEMIGROUPS (MCS-8025597)*; 24 MONTHS $24,850

SILVERSTEIN, JACK W; *BEHAVIOR OF EIGENVECTORS OF LARGE DIMENSIONAL RANDOM MATRICES (MCS-8101703)*; 24 MONTHS $20,390

MAHAFFY, JOSEPH M; *MATHEMATICAL MODELING OF CELLULAR FEEDBACK CONTROL SYSTEMS (MCS-8102838)*; 24 MONTHS $18,217

LATCH, DANA MAY, AND STANAT, DONALD F; *SEMANTICS OF FUNCTIONAL PROGRAMMING LANGUAGES (MCS-8104217*)*; 24 MONTHS $8,996

MARTIN, ROBERT H; *NONLINEAR DIFFERENTIAL EQUATIONS IN BANACH SPACES (MCS-8104220)*; 24 MONTHS $31,114

DECKER, DWIGHT W; *THE TRANSITION FROM THIN PLATE TO MEMBRANE (MCS-8104254)*; 24 MONTHS $19,600

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

EBERLEIN, PATRICK; *RIGIDITY PROPERTIES OF LATTICES OF NONPOSITIVE CURVATURE (MCS-7901730 A01)*; 24 MONTHS $31,000

STASHEFF, JAMES D; *HOMOTOPY THEORY OF CLASSIFYING SPACES AND FIBRINGS (MCS-7903460 A02)*; 12 MONTHS $21,427

MARCUS, BRIAN H; *ERGODIC THEORY AND DYNAMICAL SYSTEMS (MCS-8001796 A01)*; 12 MONTHS $11,356

NEWHOUSE, SHELDON E; *DYNAMICAL SYSTEMS AND BIFURCATION THEORY (MCS-8001890 A02)*; 12 MONTHS $19,872

SCHLESSINGER, MICHAEL; *DEFORMATION THEORY (MCS-8003278 A01)*; 12 MONTHS $14,078

JOHNSON, NORMAN L; *EFFECTS AND DETECTION OF SELECTIVE MODIFICATION IN SAMPLES: MULTIVARIATE MODELS AND TECHNIQUES (MCS-8021704)*; 24 MONTHS $32,635

SIMONS, GORDON, AND RUPPERT, DAVID; *SOME PROBLEMS IN MATHEMATICAL STATISTICS (MCS-8100748)*; 12 MONTHS $41,263

WAHL, JONATHAN M; *SMOOTHING AND DEFORMATION OF NORMAL SURFACE SINGULARITIES (MCS-8100750)*; 24 MONTHS $31,056

GOODMAN, SUE E; *FLOWS AND FOLIATIONS ON 3-MANIFOLDS (MCS-8100785)*; 24 MONTHS $25,600

GROSS, KENNETH I; *RESEARCH IN HARMONIC ANALYSIS (MCS-8101545)*; 12 MONTHS $12,600

CIMA, JOSEPH A; *SPECIAL CLASSES OF FUNCTIONS HOLOMORPHIC ON THE DISC OR BALL (MCS-8101549)*; 12 MONTHS $14,714

GROSS, KENNETH I; *REGIONAL CONFERENCE ON REPRESENTATIONS OF SEMI-SIMPLE LIE GROUPS AND APPLICATIONS TO ANALYSIS, GEOMETRY, AND NUMBER THEORY, CHAPEL HILL, NORTH CAROLINA; MAY 18-22, 1981 (MCS-8105523)*; 6 MONTHS $14,988

NORTH DAKOTA

NORTH DAKOTA STATE UNIVERSITY MAIN CAMPUS

VINOGRAD, ROBERT; *REDUCIBILITY AND ALMOST REDUCIBILITY OF ALMOST PERIODIC AND QUASI PERIODIC SYSTEMS (MCS-8115323)*; 12 MONTHS $10,502

OHIO

CASE WESTERN RESERVE UNIVERSITY

LEITMAN, MARSHALL J; *KINETIC EQUATIONS AND EVOLUTIONARY SYSTEMS (MCS-8003853 A01)*; 24 MONTHS $26,500

CLEVELAND STATE UNIVERSITY

CHAO, JOHN J.-A, AND WOYCZYNSKI, WOJBOR A; *REGIONAL CONFERENCE ON MARTINGALE THEORY IN HARMONIC ANALYSIS AND BANACH SPACES; CLEVELAND, OHIO; JULY 13-17, 1981 (MCS-8100755)*; 16 MONTHS $17,867

OHIO STATE UNIVERSITY

JOHNSON, WILLIAM B; *GEOMETRY OF BANACH SPACES (MCS-7903042 A02)*; 12 MONTHS $61,253

JOHNSON, WILLIAM B; *GEOMETRY OF BANACH SPACES (MCS-7903042 A03)*; $5,584

BANNAI, EIICHI; *ALGEBRAIC COMBINATORICS (MCS-7903128 A01)*; 24 MONTHS $21,816

FOREST, M G; *INVERSE SPECTRAL THEORY AND CONCRETE ASPECTS OF PERIODIC SOLITONS (MCS-8002969 A01)*; 24 MONTHS $18,054

SUCHESTON, LOUIS; *PROBABILITY AND ERGODIC THEORY (MCS-8005395 A01)*; 12 MONTHS $18,000

MITYAGIN, BORIS; *GEOMETRY OF NUCLEAR SPACES (MCS-8006073 A01)*; 12 MONTHS $17,272

MOSCOVICI, HENRI; *ELLIPTIC OPERATORS AND SERIES REPRESENTATIONS OF LIE GROUPS (MCS-8101683)*; 24 MONTHS $18,664

NEVAI, PAUL; *ORTHOGONAL POLYNOMIALS (MCS-8101720)*; 24 MONTHS $22,147

SPRAGUE, ALAN P; *PARTIAL SPACES OF HIGHER DIMENSION: A COMBINATORIAL STUDY (MCS-8102361)*; 24 MONTHS $19,600

RAY-CHAUDHURI, DIJEN K; *COMBINATORIAL PROBLEMS AND THEIR APPLICATIONS (MCS-8102456)*; 12 MONTHS $19,950

DYNIN, ALEXANDER; *SINGULAR INTEGRAL OPERATORS ON HOMOGENEOUS SPACES (MCS-8102628)*; 24 MONTHS $25,672

FRIEDMAN, HARVEY M; *INVESTIGATIONS INTO THE NECESSARY USE OF ABSTRACT SET THEORY, AND CONSTRUCTIVE ASPECTS OF ALGEBRA (MCS-8102681)*; 12 MONTHS $25,400

BURGHELEA, DAN, AND NEISENDORFER, JOSEPH A; *GEOMETRIC TOPOLOGY AND HOMOTOPY THEORY (MCS-8102686)*; 12 MONTHS $29,300

DAVIS, WILLIAM J; *THE BANACH-MAZUR DISTANCE BETWEEN FINITE DIMENSIONAL SPACES, AND PROJECTION CONSTANTS (MCS-8102714)*; 12 MONTHS $21,924

SEYMOUR, PAUL; *STRUCTURE THEOREMS FOR GRAPHS AND MATROIDS AND DISCRETE OPTIMIZATION (MCS-8103440*)*; 24 MONTHS $15,516

FALKNER, NEIL; *SOME PROBLEMS IN MARKOV PROCESSES AND POTENTIAL THEORY (MCS-8103473)*; 12 MONTHS $7,669

UNIVERSITY OF CINCINNATI

MEYER, KENNETH R; *DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS (MCS-8001851 A01)*; 12 MONTHS $46,950

UNIVERSITY OF TOLEDO

SHIELDS, PAUL C; *PROBABILITY AND ERGODIC THEORY (MCS-8024091)*; 10 MONTHS $9,000

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

EVANS, BENNY D; *GROUPS AND 3-MANIFOLDS (MCS-8102251)*; 24 MONTHS $22,900

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

WHITE, LUTHER W; *CONTROL OF SOBOLEV-GALPERN EQUATIONS (MCS-7902037 A01)*; 24 MONTHS $20,247

MCDONALD, BERNARD R; *GEOMETRIC ALGEBRA AND QUADRATIC FORMS OVER RINGS WITH MANY UNITS (MCS-8023735)*; 12 MONTHS $12,400

ALPERIN, ROGER; *THE ALGEBRAIC THEORY OF GROUPS ACTING ON TREES (MCS-8101585)*; 24 MONTHS $23,262

MAGURN, BRUCE A; *WHITEHEAD GROUPS (MCS-8101667)*; 24 MONTHS $19,656

MCCULLOUGH, DARRYL; *CE DIMENSION-RAISING PROBLEM; SELF-HOMOTOPY-EQUIVALENCES AND AUTOMORPHISMS OF MANIFOLDS (MCS-8101886)*; 24 MONTHS $19,100

RANDELL, RICHARD C; *TOPOLOGY OF VARIETIES (MCS-8101940)*; 24 MONTHS $21,600

ANCEL, FREDERIC D; *AN INVESTIGATION OF DIMENSION RAISING CELL-LIKE DECOMPOSITIONS OF MANIFOLDS (MCS-8103420)*; 24 MONTHS $19,000

OREGON

OREGON STATE UNIVERSITY

FIREY, WILLIAM J; *PROBLEMS IN INTEGRAL GEOMETRY (MCS-7900331 A02)*; 12 MONTHS $14,587

FEIN, BURTON I; *BRAUER GROUPS OF FIELDS (MCS-7900698 A01)*; 24 MONTHS $25,385

SMITH, KENNAN T; *MATHEMATICAL ASPECTS OF DIVERGENT BEAM RADIOGRAPHY (MCS-8101586*)*; 12 MONTHS $18,699

UNIVERSITY OF OREGON - EUGENE

KANTOR, WILLIAM M; *PERMUTATION GROUPS (MCS-7903130 A02)*; 12 MONTHS $13,171

TRUAX, DONALD R; *PROBABILITY AND STATISTICS (MCS-8002754 A01)*; 12 MONTHS $25,000

SEITZ, GARY M; *FINITE GROUP THEORY AND REPRESENTATION THEORY (MCS-8100795)*; 12 MONTHS $33,537

SIERADSKI, ALLAN J; *FRAMED LINKS IN TWO-DIMENSIONAL HOMOTOPY THEORY (MCS-8102151)*; 24 MONTHS $24,300

GILKEY, PETER B; *THE ETA INVARIANT FOR ELLIPTIC BOUNDARY PROBLEMS (MCS-8113398)*; 24 MONTHS $23,238

PENNSYLVANIA

BRYN MAWR COLLEGE

HUGHES, RHONDA J; *SPECTRAL ANALYSIS OF UNBOUNDED OPERATORS (MCS-8011198 A01)*; 12 MONTHS $9,900

CARNEGIE-MELLON UNIVERSITY

BALAS, EGON; *INTEGER AND COMBINATORIAL PROGRAMMING (ECS-7902506 A02*)*; 12 MONTHS $22,000

COLEMAN, BERNARD D, AND OWEN, DAVID R; *NON-LINEAR CONTINUUM MECHANICS (MCS-7902536 A02)*; 12 MONTHS $33,670

SCHAFFER, JUAN J; *STUDIES IN FUNCTIONAL ANALYSIS AND FUNCTIONAL-DIFFERENTIAL EQUATIONS (MCS-7902546 A03)*; 12 MONTHS $19,159

MIZEL, VICTOR J; *NONLINEAR AND STOCHASTIC ANALYSIS (MCS-7905786 A01)*; 12 MONTHS $23,359

MACCAMY, RICHARD C; *DIFFERENTIAL AND INTEGRAL EQUATIONS FOR HEREDITARY SYSTEMS (MCS-8001944 A01)*; 12 MONTHS $19,602

COFFMAN, CHARLES V, AND MIZEL, VICTOR J; *ANALYSIS AND CONTINUUM MECHANICS (MCS-8002851 A01)*; 12 MONTHS $16,034

GURTIN, MORTON E, AND WILLIAMS, WILLIAM O; *MODELING IN CONTINUUM MECHANICS AND POPULATION BIOLOGY (MCS-8102380)*; 12 MONTHS $42,945

KNOWLES, GREGORY P; *OPTIMAL CONTROL AND FINITE ELEMENTS (MCS-8102625)*; 24 MONTHS $27,982

NOLL, WALTER; *MATHEMATICAL FOUNDATIONS OF PHYSICS (MCS-8102826)*; 12 MONTHS $18,390

CAGINALP, GUNDUZ; *POROUS MEDIA FLOWS AND STATISTICAL MECHANICS (MCS-8102839)*; 12 MONTHS $10,634

DREXEL UNIVERSITY

BOYER, ROBERT P; *CHARACTERS OF THE INDUCTIVE LIMIT GROUP (MCS-8104840)*; 24 MONTHS $16,900

HAVERFORD COLLEGE

GREENE, CURTIS; *COMBINATORIAL THEORY FOR PARTIALLY ORDERED SETS AND COMMUTATIVE ALGEBRA (MCS-7903029 A01)*; 24 MONTHS $52,290

INDIVIDUAL AWARD

SLAMAN, THEODORE A; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114165)*; 12 MONTHS $22,000

MANDERS, KENNETH L; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114170)*; 12 MONTHS $22,000

EDDY, WILLIAM F; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8114181)*; 12 MONTHS $22,000

LEHIGH UNIVERSITY

DAVIS, DONALD M; *HOMOTOPY-THEORETIC PROPERTIES OF PROJECTIVE SPACES (MCS-7900293 A01)*; 24 MONTHS $28,500

EDELEN, DOMINIC G; *APPLICATIONS OF ISOVECTOR METHODS TO THE MECHANICS OF SOLIDS AND FLUIDS (MCS-8021360)*; 12 MONTHS $29,510

RIVLIN, RONALD S; *STUDIES IN NON-LINEAR CONTINUUM PHYSICS (MCS-8026567*)*; 12 MONTHS $14,800

MCALLISTER, GREGORY T; *ON NUMERICAL METHODS FOR TWO PROBLEMS IN ELLIPTIC DIFFERENTIAL EQUATIONS (MCS-8101894*)*; 24 MONTHS $17,320

PENNSYLVANIA STATE UNIVERSITY

FORMANEK, EDWARD; *THE RING OF GENERIC MATRICES (MCS-7901056 A01)*; 24 MONTHS $31,806

PARSONS, TORRENCE D; *GRAPH THEORY (MCS-8002263 A01)*; 24 MONTHS $25,500

VASERSTEIN, LEONID; *CLASSICAL GROUPS OVER RINGS (MCS-8002801 A01)*; 12 MONTHS $15,000

HERMAN, RICHARD H, AND ANDERSON, JOEL H; *BANACH*-ALGEBRAS AND ALGEBRAS OF OPERATORS (MCS-8002802 A01)*; 12 MONTHS $25,982

JECH, THOMAS J; *MATHEMATICAL LOGIC (MCS-8020467)*; 12 MONTHS $37,857

JAMES, DONALD G; *FORMS, GROUPS AND GEOMETRY (MCS-8025560)*; 24 MONTHS $28,616

DEUTSCH, FRANK; *APPROXIMATION THEORY IN NORMED LINEAR SPACES (MCS-8101879)*; 24 MONTHS $29,500

HAGER, WILLIAM W, CHEN, GOONG, AND MILLS, WENDELL H; *CONTROL SYSTEMS GOVERNED BY PARTIAL DIFFERENTIAL EQUATIONS (MCS-8101892)*; 12 MONTHS $35,127

LI, WEN-CH'IN W, AND BRESSOUD, DAVID M; *ANALYTIC, ALGEBRAIC AND COMBINATORIAL NUMBER THEORY (MCS-8101943)*; 12 MONTHS $22,203

KRANTZ, STEVEN G; *FUNCTION THEORY OF SEVERAL COMPLEX VARIABLES (MCS-8102677)*; 24 MONTHS $24,379

WATERHOUSE, WILLIAM C, AND WEISFEILER, BORIS; *ALGEBRAIC GROUPS (MCS-8102697)*; 12 MONTHS $30,400

SIMPSON, STEPHEN; *MATHEMATICAL LOGIC (MCS-8107867)*; 12 MONTHS $17,946

SOCIETY FOR INDUSTRIAL AND APPLIED MATH (SIAM)

BLOCK, I EDWARD; *CONFERENCE ON APPLICATIONS OF DISCRETE MATHEMATICS, TROY, NEW YORK, JUNE 10-12, 1981 (MCS-8100674*)*; 6 MONTHS $6,835

TEMPLE UNIVERSITY

NEWMAN, DONALD J; *RATIONAL APPROXIMATION (MCS-7802171 A03)*; 12 MONTHS $18,685

GORDON, ROBERT; *GRADED ARTIN ALGEBRA (MCS-8102109)*; 24 MONTHS $25,850

UNIVERSITY OF PENNSYLVANIA

KAZDAN, JERRY L, AND WARNER, FRANK W; *APPLICATIONS OF DIFFERENTIAL EQUATIONS TO DIFFERENTIAL GEOMETRY (MCS-7901780 A03)*; 12 MONTHS $93,000

KADISON, RICHARD V; *FUNCTIONAL ANALYSIS AND MATHEMATICAL PHYSICS (MCS-8002991 A01)*; 12 MONTHS $86,300

GERSTENHABER, MURRAY; *MODERN GEOMETRIC METHODS IN ALGEBRA (MCS-8003096 A01)*; 12 MONTHS $23,447

GERSTENHABER, MURRAY; *MODERN GEOMETRIC METHODS IN ALGEBRA (MCS-8003096 A02)*; $10,900

WILF, HERBERT S; *COMBINATORIAL ANALYSIS (MCS-8025177)*; 24 MONTHS $43,732

YANG, CHUNG-TAO; *DIFFERENTIAL GEOMETRY AND TOPOLOGY (MCS-8102368)*; 24 MONTHS $48,700

CALABI, EUGENIO, AND GLUCK, HERMAN; *DIFFERENTIAL STRUCTURES (MCS-8102554)*; 12 MONTHS $61,500

SHALE, DAVID; *MATHEMATICAL STRUCTURES AT THE FOUNDATIONS OF QUANTUM THEORY (MCS-8102632)*; 12 MONTHS $18,700

UNIVERSITY OF PITTSBURGH

MACBEATH, ALEXANDER M; *CRYSTALLOGRAPHY OF LOW-DIMENSIONAL SPACES (MCS-8003231 A01)*; 12 MONTHS $18,284

HANGES, NICHOLAS; *ANALYTIC PARTIAL DIFFERENTIAL OPERATORS (MCS-8100505)*; 12 MONTHS $9,667

HALL, CHARLES A; *UPGRADING THE INSTITUTE FOR COMPUTATIONAL MATHEMATICS AND APPLICATIONS COMPUTER LABORATORY (MCS-8105767)*; 12 MONTHS $24,810

RHODE ISLAND

AMERICAN MATHEMATICAL SOCIETY

LEVEQUE, WILLIAM J; *AMS SERIES OF SHORT SUMMER CONFERENCES: PHASE I (MCS-7924296)*; 12 MONTHS $13,300

LEVEQUE, WILLIAM J; *1981 SUMMER INSTITUTE ON 'SINGULARITIES', ARCATA, CALIFORNIA; JULY 20-AUGUST 7, 1981 (MCS-8020808)*; 12 MONTHS $86,740

LEVEQUE, WILLIAM J, AND LEBOVITZ, NORMAN R; *1981 SEMINAR ON FLUID-DYNAMICAL PROBLEMS IN ASTROPHYSICS AND GEOPHYSICS, CHICAGO, ILLINOIS, JUNE 29-JULY 11, 1981 (MCS-8024110*)*; 6 MONTHS $7,657

LEVEQUE, WILLIAM J; *ADMINISTRATION OF NSF POSTDOCTORAL RESEARCH FELLOWSHIP PROGRAM, 1980-81 (MCS-8102478)*; 12 MONTHS $21,381

LEVEQUE, WILLIAM J; *PREPARATION OF THE LIST OF AMERICAN MATHEMATICIANS FOR THE SEVENTH EDITION OF THE WORLD DIRECTORY OF MATHEMATICIANS (MCS-8116594)*; 12 MONTHS $11,200

BROWN UNIVERSITY

KUSHNER, HAROLD J; *RESEARCH ON STOCHASTIC SYSTEMS AND STABILITY THEORY AND APPLICATIONS (ECS-7712946 A03*)*; 12 MONTHS $30,000

NOMIZU, KATSUMI; *DIFFERENTIAL GEOMETRY (MCS-7901310 A02)*; 12 MONTHS $41,133

STRAUSS, WALTER A; *SCATTERING THEORY OF LINEAR AND NONLINEAR WAVES (MCS-7901965 A02)*; 12 MONTHS $25,000

PIPKIN, ALLEN C; *MECHANICAL PROPERTIES OF SOLIDS AND LIQUIDS (MCS-7903392 A02*)*; 12 MONTHS $12,575

FLEMING, WENDELL H; *RESEARCH ON DISTRIBUTED PARAMETER STOCHASTIC SYSTEMS AND OPTIMAL STOCHASTIC CONTROL (MCS-7903554 A03)*; 12 MONTHS $32,990

WEISSLER, FREDERIC B; *SEMIGROUPS OF OPERATORS: HYPERCONTRACTIVE ESTIMATES AND NONLINEAR PERTURBATIONS (MCS-7903636 A02)*; 12 MONTHS $11,393

HARRIS, BRUNO, BAUM, PAUL F, AND MAC PHERSON, ROBERT D; *ALGEBRAIC AND GEOMETRIC TOPOLOGY (MCS-7904905 A02)*; 12 MONTHS $69,678

LA SALLE, JOSEPH P, HALE, JACK K, AND BANKS, H T; *RESEARCH ON DYNAMICAL SYSTEMS (MCS-7905774 A04)*; $2,628

INFANTE, ETTORE F, HALE, JACK K, BANKS, H T, DAFERMOS, CONSTANTI M, AND MALLET-PARET, JOHN; *DYNAMICAL SYSTEMS (MCS-7905774 A05)*; 12 MONTHS $141,833

ACCOLA, ROBERT D; *TOPICS IN OPEN AND CLOSED RIEMANN SURFACES (MCS-8001817 A01)*; 12 MONTHS $17,502

WERMER, JOHN; *FUNCTION ALGEBRAS (MCS-8003917 A01)*; 12 MONTHS $47,948

HALE, JACK K; *MEETING ON CONTROL THEORY AND DYNAMICAL SYSTEMS AT BROWN UNIVERSITY; MAY 8-9, 1981 (MCS-8021360)*; 12 MONTHS $7,500

BANCHOFF, THOMAS F; *COMPUTER GRAPHICS-AIDED STUDY IN GEOMETRY (MCS-8025770)*; 12 MONTHS $24,800

HARRIS, STEVEN G; *DIFFERENTIAL GEOMETRY OF LORENTZ MANIFOLDS (MCS-8103357)*; 24 MONTHS $22,000

FULTON, WILLIAM, AND HARRIS, JOSEPH; *ALGEBRAIC GEOMETRY (MCS-8103400)*; 12 MONTHS $26,200

HOFFSTEIN, JEFFREY; *APPLICATIONS OF EISENSTEIN SERIES TO L-SERIES (MCS-8103414)*; 12 MONTHS $10,900

GORDON RESEARCH CONFERENCES

CRUICKSHANK, ALEXANDER; *GORDON RESEARCH CONFERENCE ON THEORETICAL BIOLOGY AND BIOMATHEMATICS, TILTON, NEW HAMPSHIRE (MCS-8023804)*; 6 MONTHS $5,000

UNIVERSITY OF RHODE ISLAND

SCHONBEK, MARIA E; *EXISTENCE AND DECAY OF CONSERVATION LAWS (MCS-8102140)*; 24 MONTHS $16,861

SOUTH CAROLINA

COLLEGE OF CHARLESTON

ALLIGOOD, KATHLEEN T; *GLOBAL CONTINUATION OF PERIODIC ORBITS (MCS-8102557)*; 12 MONTHS $8,000

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

ROBERTS, JAMES W; *NONLOCALLY CONVEX COMPACT CONVEX SETS (MCS-7901044 A01)*; 24 MONTHS $21,293

DEVORE, RONALD A; *MATHEMATICAL APPROXIMATION THEORY (MCS-8101661)*; 12 MONTHS $14,630

MARKHAM, THOMAS L; *SPECIAL MATRICES (MCS-8102114)*; 12 MONTHS $33,325

BENNETT, COLIN; *OPERATORS AND SPACES OF FUNCTIONS (MCS-8102194)*; 12 MONTHS $22,465

NESTLERODE, WILLIAM C; *SINGULAR INTEGRALS AND MAXIMAL FUNCTIONS (MCS-8102483)*; 24 MONTHS $17,397

TENNESSEE

MEMPHIS STATE UNIVERSITY

HADDOCK, JOHN R; *LIAPUNOV-RAZUMIKHIN FUNCTIONS AND AN AUTONOMOUS PRINCIPLE FOR FUNCTIONAL DIFFERENTIAL EQUATIONS (MCS-8025280)*; 12 MONTHS $9,999

UNIVERSITY OF TENNESSEE AT KNOXVILLE

STEPHENSON, KENNETH R; *ANALYTIC FUNCTIONS AND FUNCTION HYPERGROUPS (MCS-7903037 A01)*; 24 MONTHS $19,298

DAVERMAN, ROBERT J; *PROBLEMS IN THE TOPOLOGY OF MANIFOLDS (MCS-7906083 A01)*; 24 MONTHS $39,360

KLAASEN, GENE A, AND TROY, WILLIAM C; *FORMATION AND STABILITY OF SPATIAL STRUCTURES FOR SYSTEMS OF (MCS-8002948 A01)*; 24 MONTHS $28,255

MILLER, MATTHEW; *RESOLUTIONS OF GORENSTEIN IDEALS (MCS-8101710)*; 12 MONTHS $8,100

HINTON, DON B; *SPECTRAL THEORY OF ORDINARY DIFFERENTIAL OPERATORS (MCS-8101712)*; 12 MONTHS $15,300

SPECTOR, SCOTT J; *QUALITATIVE PROPERTIES OF SOLUTIONS OF THE EQUATIONS OF FINITE ELASTICITY (MCS-8102831)*; 12 MONTHS $8,709

VANDERBILT UNIVERSITY

JONSSON, BJARNI; *UNIVERSAL ALGEBRA AND LATTICE THEORY (MCS-7901735 A01)*; 24 MONTHS $38,788

WEBB, GLENN F; *ABSTRACT NONLINEAR DIFFERENTIAL EQUATIONS AND MATHEMATICAL POPULATION MODELS (MCS-8102087)*; 24 MONTHS $23,313

GOULD, MATTHEW I; *UNIVERSAL ALGEBRA SYMPOSIUM IN HONOR OF BJARNI JONSSON; NASHVILLE, TENNESSEE; AUGUST 4-7, 1981 (MCS-8114729)*; 6 MONTHS $2,600

TEXAS

NORTH TEXAS STATE UNIVERSITY

MAULDIN, R DANIEL; *PARAMETRIZATIONS AND DESCRIPTIVE SET THEORETIC METHODS IN TOPOLOGY AND ANALYSIS (MCS-8101581)*; 24 MONTHS $32,241

RICE UNIVERSITY

VEECH, WILLIAM A; *TOPOLOGICAL DYNAMICS AND ERGODIC THEORY (MCS-8026540)*; 24 MONTHS $48,837

HARVEY, F REESE, AND POLKING, JOHN C; *COMPLEX ANALYSIS (MCS-8104235)*; 12 MONTHS $47,307

WELLS, R O; *COMPLEX DIFFERENTIAL GEOMETRY AND MATHEMATICAL PHYSICS (MCS-8104237)*; 12 MONTHS $20,604

CURTIS, MORTON L; *TOPOLOGY (MCS-8104244)*; 12 MONTHS $68,000

TEXAS A & M UNIVERSITY

MILNE, STEPHEN; *COMBINATORICS AND LIE ALGEBRA (MCS-7901722 A01)*; 24 MONTHS $22,017

PARZEN, EMANUEL; *REGIONAL CONF. ON QUANTILE PROCESSES & THEIR APPLICATIONS TO GOODNESS-OF-FIT, DENSITY, REGRESSION & PARAMETER ESTIMATION PROBLEMS; COLLEGE STATION, TEXAS: JUNE 8-12, 1981 (MCS-8101584)*; 6 MONTHS $20,891

LACEY, H E; *MODELING AND ANALYSIS OF MYELINATED NERVE AXONS (MCS-8101666)*; 24 MONTHS $20,555

WILLIAMS, DANA; *THE STRUCTURE OF TRANSFORMATION GROUP C*-ALGEBRAS WITH CONTINUOUS TRACE (MCS-8101676)*; 24 MONTHS $16,500

RAHE, MAURICE, AND SWANSON, LAIF; *ALMOST TOPOLOGICAL INDUCING OF MEASURE PRESERVING TRANSFORMATIONS (MCS-8101699)*; 12 MONTHS $18,000

GORDON, YEHORAM; *PARAMETERS IN BANACH SPACES (MCS-8109561)*; 12 MONTHS $11,032

TEXAS TECH UNIVERSITY

LUTZER, DAVID J; *ABSTRACT SPACES, FUNCTION SPACES AND ORDERED SPACES (MCS-8001617)*; 30 MONTHS $24,388

UNIV OF TEXAS AT AUSTIN

ODELL, EDWARD; *STRUCTURE PROBLEMS IN BANACH SPACES (MCS-7801344 A02)*; $9,900

YOUNG, DAVID M, AND KINCAID, DAVID R; *RESEARCH AND DEVELOPMENT OF ITERATIVE ALGORITHMS AND SOFTWARE FOR ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS (MCS-7919839 A01*)*; 12 MONTHS $16,322

KUNEN, KENNETH; *MATHEMATICAL LOGIC AND FOUNDATIONS (MCS-8002132 A01)*; 12 MONTHS $17,855

ROSENTHAL, HASKELL P; *FUNCTIONAL ANALYSIS: ISOMORPHIC THEORY OF BANACH SPACES (MCS-8002393 A01)*; 12 MONTHS $41,750

ROSENTHAL, HASKELL P; *FUNCTIONAL ANALYSIS: ISOMORPHIC THEORY OF BANACH SPACES (MCS-8002393 A02)*; $6,614

SCHELTER, WILLIAM F; *AFFINE RINGS SATISFYING A POLYNOMIAL IDENTITY (MCS-8003113 A01)*; 12 MONTHS $11,412

RADIN, CHARLES; *MODERN ANALYSIS IN THE MATHEMATICAL PHYSICS OF CRYSTALS (MCS-8101596)*; 24 MONTHS $22,000

CANNON, JOHN R; *A CLASS OF INVERSE PROBLEMS (MCS-8101599)*; 24 MONTHS $37,922

HEITMANN, RAYMOND C; *FINITELY GENERATED COHEN-MACAULAY MODULES (MCS-8101906)*; 12 MONTHS $8,500

LORENTZ, GEORGE G; *FUNCTIONAL ANALYSIS, APPROXIMATION AND INTERPOLATION (MCS-8102698)*; 12 MONTHS $14,996

CHARNES, A, AND VICK, JAMES; *'81 INTERNATIONAL SYMPOSIUM ON SEMI-INFINITE PROGRAMMING AND APPLICATIONS (ECS-8102912*)*; 12 MONTHS $6,000

CANTOR, MURRAY R; *TWO SLICE PROBLEMS IN GENERAL RELATIVITY (PHY-8103320*)*; 12 MONTHS $4,776

MORRIS, CARL N; *THEORY AND APPLICATION OF PARAMETRIC EMPIRICAL BAYES ESTIMATION (MCS-8104350)*; 12 MONTHS $24,658

BING, R H, AND EATON, WILLIAM T; *MANIFOLDS WITH LOW DIMENSIONS (MCS-8104255)*; 12 MONTHS $47,984

GILBERT, JOHN E; *CONFERENCE ON HARMONIC ANALYSIS AND PROBABILITY; AUSTIN, TEXAS; JUNE 1-JULY 8, 1981 (MCS-8109989)*; 6 MONTHS $7,000

UNIV OF TEXAS AT DALLAS

KIMELDORF, GEORGE; *MONOTONE CORRELATION AND POSITIVE DEPENDENCE (MCS-8102564)*; 12 MONTHS $15,348

PANG, JONG-SHI; *LARGE-SCALE AND GENERALIZED COMPLEMENTARITY SYSTEMS (ECS-8114571*)*; 12 MONTHS $6,000

UTAH

UNIVERSITY OF UTAH

GOODEARL, KENNETH R; *RING THEORY (MCS-7800977 A02)*; $5,500

TAYLOR, JOSEPH L; *HOMOLOGY AND HARMONIC ANALYSIS ON LIE GROUPS (MCS-7902747 A02)*; 12 MONTHS $20,784

DONAGI, RON; *MODULI OF COMPLEX ABELIAN VARIETIES (MCS-8102643)*; 12 MONTHS $10,800

CARLSON, JAMES A, AND TOLEDO, DOMINGO; *ALGEBRAIC GEOMETRY: HODGE THEORY AND COHERENT SHEAVES (MCS-8102745)*; 12 MONTHS $26,100

ROBERTS, PAUL C; *LOCAL COHOMOLOGY OF COMMUTATIVE RINGS (MCS-8103379)*; 24 MONTHS $23,450

CLEMENS, C H; *COMPLEX GEOMETRY (MCS-8103384)*; 12 MONTHS $18,811

TRACE, BRUCE S; *HANDLEBODY DECOMPOSITIONS OF 1-CONNECTED 4-MANIFOLDS (MCS-8103387)*; 24 MONTHS $20,000

ROSSI, HUGO; *REPRESENTATION THEORY OF LIE GROUPS AND COMPLEX GEOMETRY (MCS-8104269)*; 12 MONTHS $70,998

UTAH STATE UNIVERSITY

ANDERSON, IAN M; *RESEARCH IN APPLIED MATHEMATICS: FURTHER STUDY OF THE INVERSE PROBLEM IN THE CALCULUS OF VARIATIONS (MCS-8104410)*; 12 MONTHS $10,204

VIRGINIA

UNIVERSITY OF VIRGINIA

HOWLAND, JAMES S, AND PITT, LOREN D; *QUANTUM MECHANICAL SCATTERING AND GAUSSIAN FIELDS (MCS-7902490 A02)*; 12 MONTHS $45,793

MCCRIMMON, KEVIN M, AND WARD, HAROLD N; *GROUP THEORY AND JORDAN ALGEBRAS (MCS-8002319 A01)*; 12 MONTHS $56,095

HERBST, IRA W; *MATHEMATICAL PHYSICS: THE SCHRODINGER EQUATION (MCS-8101665)*; 24 MONTHS $30,337

STONG, ROBERT E; *DIFFERENTIAL COBORDISM AND RELATED TOPICS (MCS-8101890)*; 12 MONTHS $41,300

ROSENBLUM, MARVIN; *OPERATOR THEORY AND ANALYSIS (MCS-8102518)*; 12 MONTHS $46,552

DUNKL, CHARLES F; *SYMMETRY AND ORTHOGONAL POLYNOMIALS (MCS-8102581)*; 24 MONTHS $23,847

DORFMEISTER, JOSEF F; *ISOPARAMETRIC HYPERSURFACES IN SPHERES, MODULAR FORMS AND DIFFERENTIAL GEOMETRY OF HOMOGENEOUS BOUNDED DOMAINS (MCS-8104848)*; 12 MONTHS $8,100

VIRGINIA POLYTECHNIC INSTITUTE

FARKAS, DANIEL, GREEN, EDWARD L, AND SNIDER, ROBERT L; *REPRESENTATIONS OF GROUPS AND ALGEBRAS (MCS-8001543 A01)*; 12 MONTHS $43,004

HANNSGEN, KENNETH B, HERDMAN, TERRY L, AND WHEELER, ROBERT L; *CONFERENCE ON VOLTERRA EQUATIONS AND FUNCTIONAL DIFFERENTIAL EQUATIONS, BLACKSBURG, VIRGINIA, JUNE 10-13, 1981 (MCS-8023198)*; 6 MONTHS $9,856

HAGEDORN, GEORGE A; *MULTIPARTICLE QUANTUM MECHANICS (MCS-8100735)*; 24 MONTHS $17,570

SHAW, J K; *SPECTRAL THEORY OF ORDINARY DIFFERENTIAL OPERATORS (MCS-8101536)*; 12 MONTHS $11,666

HANNSGEN, KENNETH B, AND WHEELER, ROBERT L; *VOLTERRA INTEGRAL EQUATIONS (MCS-8101618)*; 12 MONTHS $23,844

BALL, JOSEPH A, OLIN, ROBERT F, AND THOMSON, JAMES E; *SUBNORMAL OPERATORS AND MODEL THEORY (MCS-8101678)*; 12 MONTHS $31,000

STECH, HARLAN W; *CENTER MANIFOLD APPROXIMATIONS IN DIFFERENTIAL EQUATIONS WITH APPLICATIONS TO THE HOPF BIFURCATION (MCS-8102420)*; 12 MONTHS $9,186

WASHINGTON

UNIVERSITY OF WASHINGTON

WARFIELD, ROBERT B; *STRUCTURE OF RINGS AND MODULES (MCS-7903073 A02)*; 12 MONTHS $18,272

GREENBERG, RALPH; *ALGEBRAIC NUMBER THEORY (MCS-7903313 A01)*; 24 MONTHS $22,286

ADOLPHSON, ALAN C; *EXPONENTIAL SUMS AND P-ADIC DIFFERENTIAL EQUATIONS (MCS-7903315 A01)*; 24 MONTHS $19,513

ARSOVE, MAYNARD G; *ALGEBRAIC POTENTIAL THEORY (MCS-7903342 A02)*; 12 MONTHS $20,394

GLICKSBERG, IRVING; *HARMONIC ANALYSIS AND BANACH ALGEBRAS (MCS-7905035 A02)*; 12 MONTHS $24,810

GRUNBAUM, BRANKO; *COMBINATORIAL GEOMETRY (MCS-8001570 A01)*; 12 MONTHS $24,250

PERLMAN, MICHAEL D; *MULTIVARIATE STATISTICAL ANALYSIS (MCS-8002167 A01)*; 12 MONTHS $18,223

PERLMAN, MICHAEL D; *MULTIVARIATE STATISTICAL ANALYSIS (MCS-8002167 A02)*; $12,000

OSBORNE, M SCOTT, AND WARNER, GARTH W; *EISENSTEIN SERIES (MCS-8002324 A01)*; 12 MONTHS $35,757

MILLER, HAYNES R; *COMPLEX BORDISM AND INFINITE LOOP SPACE THEORY (MCS-8002780 A01)*; 12 MONTHS $12,080

GANGOLLI, RAMESH A; *ANALYSIS AND PROBABILITY THEORY (MCS-8003618 A01)*; 12 MONTHS $18,200

STOUT, EDGAR L; *STUDIES IN COMPLEX ANALYSIS (MCS-8100768)*; 12 MONTHS $15,500

SHORACK, GALEN R; *EMPIRICAL PROCESSES, WITH APPLICATION TO STATISTICS (MCS-8102568)*; 12 MONTHS $23,088

FOLLAND, GERALD B; *HARMONIC ANALYSIS AND DIFFERENTIAL EQUATIONS (MCS-8103382)*; 12 MONTHS $11,832

ZAFRAN, MISHA; *HARMONIC ANALYSIS: ESTIMATING NORMS (MCS-8103386)*; 24 MONTHS $21,742

WESTWATER, JOHN; *ON THE FLORY EXPONENT (MCS-8104227)*; 24 MONTHS $22,190

TUVELL, WALTER; *FOURIER TRANSFORMS IN THE SELBERG TRACE FORMULA (MCS-8106672)*; 24 MONTHS $16,900

ARMS, JUDITH M; *BIFURCATION IN FIELD THEORIES WITH CONSTRAINTS (MCS-8108797)*; 24 MONTHS $18,780

WASHINGTON STATE UNIVERSITY

KALLAHER, MICHAEL J, AND OSTROM, THEODORE G; *TRANSLATION PLANES (MCS-7826535 A02)*; 12 MONTHS $35,003

KALLAHER, MICHAEL J; *CONFERENCE ON FINITE GEOMETRIES, APRIL 8-11, 1981 (MCS-8002783)*; 12 MONTHS $5,000

WATKINS, DAVID S; *INITIALIZATION AND SOLUTION OF SEPARABLY STIFF SYSTEMS OF ORDINARY DIFFERENTIAL EQUATIONS (MCS-8102382)*; 12 MONTHS $12,715

WISCONSIN

INDIVIDUAL AWARD

TERMAN, DAVID; *MATHEMATICAL SCIENCES POSTDOCTORAL RESEARCH FELLOWSHIP (MCS-8017158 A01)*; 12 MONTHS $22,000

UNIVERSITY OF WISCONSIN-MADISON

KEISLER, H. JEROME; *MATHEMATICAL LOGIC AND FOUNDATIONS (MCS-7900824 A02)*; 12 MONTHS $40,957

WU, CHIEN-FU; *TOPICS IN EXPERIMENTAL DESIGN (MCS-7901846 A01)*; 24 MONTHS $28,556

NOHEL, JOHN A; *POSTDOCTORAL INTERDISCIPLINARY RESEARCH IN THE MATHEMATICAL SCIENCES (MCS-7927062 A01)*; 12 MONTHS $144,300

LEVIN, JACOB J; *NONLINEAR INTEGRAL AND DELAY EQUATIONS (MCS-8001524 A01)*; $16,473

KUELBS, JAMES; *PROBABILITY MEASURES ON VECTOR SPACES: BASIC RESULTS AND APPLICATIONS (MCS-8001596 A01)*; 12 MONTHS $13,709

KUELBS, JAMES; *PROBABILITY MEASURES ON VECTOR SPACES: BASIC RESULTS AND APPLICATIONS (MCS-8001596 A02)*; $8,132

CONLEY, CHARLES C; *GLOBAL AND ASYMPTOTIC PROBLEMS IN DIFFERENTIAL EQUATIONS (MCS-8001816 A01)*; 12 MONTHS $17,196

MEYER, RICHARD E, AND SHEN, MEI-CHANG; *DEVELOPMENT AND APPLICATION OF MATHEMATICAL METHODS FOR THE SCIENCES (MCS-8001960 A01)*; 12 MONTHS $59,556

WAINGER, STEPHEN; *SINGULAR INTEGRALS AND AVERAGES OF FUNCTIONS (MCS-8002178 A01)*; 12 MONTHS $15,954

SOLOMON, LOUIS; *GROUP THEORY (MCS-8002773 A01)*; 12 MONTHS $42,978

HELLERSTEIN, SIMON; *ASYMPTOTIC PROBLEMS IN FUNCTION THEORY AND INTEGRODIFFERENTIAL EQUATIONS (MCS-8003108 A01)*; 12 MONTHS $27,018

BRUALDI, RICHARD, AND SCHNEIDER, HANS; *MATRIX AND COMBINATORIAL THEORY (MCS-8026132)*; 12 MONTHS $31,665

GRIFFEATH, DAVID S; *INTERACTING PARTICLE SYSTEMS AND PERCOLATION PROCESSES (MCS-8100256)*; 12 MONTHS $9,676

RUDIN, MARY ELLE; *SET THEORETIC TOPOLOGY (MCS-8100767)*; 36 MONTHS $32,000

RUDIN, WALTER; *COMPLEX ANALYSIS IN ONE AND SEVERAL VARIABLES (MCS-8100782)*; 12 MONTHS $70,972

NEY, PETER E, AND KURTZ, THOMAS G; *STOCHASTIC MODELS FOR THE GROWTH AND MOVEMENT OF POPULATIONS (MCS-8101526)*; 12 MONTHS $30,122

ASKEY, RICHARD A; *SPECIAL FUNCTIONS AND APPROXIMATIONS (MCS-8101568)*; 12 MONTHS $35,500

CANNON, JAMES W; *GEOMETRIC TOPOLOGY AND THE FUNDAMENTAL GROUP (MCS-8101579)*; 24 MONTHS $36,561

LEONARD, TOM; *BAYESIAN METHODS FOR MODELLING SAMPLING DISTRIBUTIONS (MCS-8102423)*; 12 MONTHS $11,978

DIPERNA, RONALD J; *STABILITY AND CONVERGENCE OF APPROXIMATE SOLUTIONS TO CONSERVATION LAWS (MCS-8102545)*; 24 MONTHS $27,166

BATES, DOUGLAS M; *IMPROVING THE CHOICE OF PARAMETERS FOR NONLINEAR MODELS (MCS-8102732)*; 12 MONTHS $10,633

RABINOWITZ, PAUL H; *NONLINEAR DIFFERENTIAL EQUATIONS (MCS-8110556)*; 12 MONTHS $16,632

UNIVERSITY OF WISCONSIN-MILWAUKEE

LUTZ, DONALD A; *REDUCTION OF SYSTEMS OF LINEAR DIFFERENTIAL EQUATIONS AT A SINGULAR POINT (MCS-7901198 A01)*; 24 MONTHS $24,476

O'MALLEY, RICHARD J; *PROBLEMS CONCERNING APPROXIMATE, PEANO AND LP DERIVATIVES (MCS-8102494)*; 24 MONTHS $21,641

PHYSICS

ALABAMA

UNIVERSITY OF ALABAMA IN HUNTSVILLE

GREGORY, J C; *JAPANESE-AMERICAN COOPERATIVE EXPERIMENT TO STUDY THE NUCLEAR INTERACTIONS, CHARGE COMPOSITION AND ENERGY SPECTRA OF COSMIC RAYS AT ENERGIES UP TO 10.14 EV (PHY-8006934 A01)*; 12 MONTHS $25,682

ARIZONA

ARIZONA STATE UNIVERSITY

ROSENSTEEL, GEORGE T; *DYNAMICAL GROUP SYMMETRY IN NUCLEAR STRUCTURE PHYSICS (PHY-8107383)*; 24 MONTHS $20,500

UNIVERSITY OF ARIZONA

BOWEN, THEODORE, JENKINS, EDGAR W, AND PIFER, A E; *ELEMENTARY PARTICLE RESEARCH WITH COUNTERS AND TRACK CHAMBERS (PHY-7908641 A05)*; 12 MONTHS $190,000

WING, WILLIAM H; *MODERN SPECTROSCOPY AND COLLISION STUDIES OF FUNDAMENTAL ATOMIC AND MOLECULAR SYSTEMS (PHY-7915302 A01)*; 12 MONTHS $150,000

HILL, HENRY A; *EXPERIMENTAL RELATIVITY BY DAYTIME ASTROMETRY AT SCLERA (PHY-8008839 A01)*; 12 MONTHS $79,142

KOHLER, H S, AND BARRETT, BRUCE R; *NUCLEAR THEORY (PHY-8100141)*; 12 MONTHS $55,400

HOPF, FREDERIC A; *STUDIES OF INSTABILITIES AND CHAOTIC BEHAVIOR IN OPTICAL BISTABILITY (PHY-8104982)*; 12 MONTHS $65,000

ARKANSAS

UNIVERSITY OF ARKANSAS FAYETTEVILLE

HUGHES, RAYMOND H; *A LASER-GENERATED FAST-PULSE HEAVY-ION SOURCE (PHY-7825988 A02)*; 12 MONTHS $60,000

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

KOONIN, STEVEN E; *THEORETICAL NUCLEAR PHYSICS (PHY-7721602 A02)*; 12 MONTHS $59,500

KOONIN, STEVEN E; *THEORETICAL NUCLEAR PHYSICS (PHY-7721602 A03*)*; 4 MONTHS $20,903

DREVER, RONALD W; *INVESTIGATIONS IN EXPERIMENTAL GRAVITY AND GRAVITATIONAL RADIATION (PHY-7912905 A02)*; 6 MONTHS $199,955

DREVER, RONALD W; *INVESTIGATIONS IN EXPERIMENTAL GRAVITY AND GRAVITATIONAL RADIATION (PHY-7912905 A03)*; 8 MONTHS $200,000

TOMBRELLO, THOMAS A; *NUCLEAR PHYSICS AND RELATED RESEARCH IN ASTROPHYSICS, GEOPHYSICS AND TECHNOLOGY (PHY-7923638 A02)*; 12 MONTHS $1,350,000

TOMBRELLO, THOMAS A; *NUCLEAR PHYSICS AND ITS APPLICATION TO ASTROPHYSICS, GEOPHYSICS AND TECHNOLOGY (PHY-7923638 A03)*; $50,000

MERCEREAU, JAMES E; *APPLICATIONS OF RF MICROWAVE SUPERCONDUCTIVITY TO PARTICLE ACCELERATORS (PHY-8015508)*; 12 MONTHS $125,000

ZWEIG, GEORGE; *THE IMPLICATIONS OF THE CHEMISTRY OF FREE QUARKS FOR QUARK SEARCH EXPERIMENTS (PHY-8022798)*; 24 MONTHS $38,225

CALIFORNIA STATE UNIVERSITY, LOS ANGELES

EPSTEIN, MARTIN B, AND MARGAZIOTIS, D J; *PROTON INDUCED REACTIONS ON HELIUM 3 AND OXYGEN 16 AT INTERMEDIATE ENERGIES (PHY-7925221 A01)*; 12 MONTHS $60,000

JET PROPULSION LABORATORY

TRAJMAR, SANDOR; *ELECTRON SCATTERING BY LASER EXCITED ATOMS (PHY-7905971 A02)*; 12 MONTHS $20,160

LAWRENCE BERKELEY LABORATORY

KELLY, ROBERT L; *BERKELEY PARTICLE DATA CENTER (PHY-8022530)*; 12 MONTHS $41,000

LOCKHEED MISSILES AND SPACE COMPANY INC-LOCKHEED PALO ALTO RESEARCH LABORATORY

PRONKO, JOHN G, AND KOHLER, D A; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: SEARCH FOR SECOND - CLASS CURRENTS IN NUCLEAR BETA DECAY (PHY-7800855 A03*)*; $33,964

SRI INTERNATIONAL

GALLAGHER, THOMAS F; *RYDBERG STATES OF ALKALINE EARTH ATOMS (PHY-8007041 A01)*; 12 MONTHS $62,900

GILLEN, KEITH T, AND COGGIOLA, MICHAEL J; *COLLISION PROCESSES INVOLVING EXCITED ATOMS (PHY-8111580)*; 12 MONTHS $96,000

PETERSON, JAMES R; *PROPERTIES OF METASTABLE NEGATIVE IONS (PHY-8111912)*; 12 MONTHS $78,964

HELM, HANSPETER; *HALF-COLLISIONS OF MOLECULAR IONS (PHY-8112543)*; 12 MONTHS $80,424

STANFORD UNIVERSITY

HANNA, STANLEY S, AND MEYERHOF, WALTER E; *NUCLEAR SCIENCE STUDIES WITH A 16-MEV TANDEM VAN DE GRAAFF ACCELERATOR (PHY-7725631 A04*)*; 6 MONTHS $250,000

EVERITT, CHARLES W; *A CRYOGENIC EQUIVALENCE PRINCIPLE EXPERIMENT (PHY-7823006 A02)*; 12 MONTHS $77,400

SUSSKIND, LEONARD; *THE THEORY OF FUNDAMENTAL INTERACTIONS (PHY-7826847 A02)*; 12 MONTHS $105,137

FAIRBANK, WILLIAM M; *SEARCH FOR FRACTIONAL CHARGE USING LOW TEMPERATURE TECHNIQUES (PHY-7900024 A02)*; 12 MONTHS $147,000

SCHWETTMAN, H A, YEARIAN, MASON R, AND HANNA, STANLEY S; *DEVELOPMENT AND TESTING OF A SUPERCONDUCTING ELECTRON ACCELERATOR WITH RECIRCULATION OF THE BEAM AND NUCLEAR PHYSICS EXPERIMENTATION (PHY-7905286 A03)*; 3 MONTHS $410,000

HANNA, STANLEY S, SCHWETTMAN, H A, AND YEARIAN, MASON R; *DEVELOPMENT AND TESTING OF A SUPERCONDUCTING ELECTRON ACCELERATOR WITH RECIRCULATION OF THE BEAM AND NUCLEAR PHYSICS EXPERIMENTATION (PHY-7905286 A04)*; 3 MONTHS $45,869

ZARE, RICHARD N; *SYNCHROTRON RADIATION AS A PROBE OF ATOMIC AND MOLECULAR PROCESSES (PHY-7908694 A02)*; 12 MONTHS $46,430

WOJCICKI, STANLEY G; *HIGH ENERGY PHYSICS (PHY-7919259 A01)*; 12 MONTHS $360,521

WAGONER, ROBERT V; *THEORETICAL STUDIES IN GRAVITATION AND ASTROPHYSICS (PHY-7920133 A01)*; 12 MONTHS $91,992

SCHWARTZ, MELVIN; *HIGH ENERGY PHYSICS (PHY-8001640 A01)*; 12 MONTHS $130,726

SCHAWLOW, ARTHUR L, AND HANSCH, THEODOR W; *STUDIES IN SPECTROSCOPY AND QUANTUM ELECTRONICS (PHY-8010689 A01)*; 12 MONTHS $342,000

SCHAWLOW, ARTHUR L, AND HANSCH, THEODOR W; *STUDIES IN SPECTROSCOPY AND QUANTUM ELECTRONICS (PHY-8010689 A02)*; $33,500

FAIRBANK, WILLIAM M; *SEARCH FOR GRAVITATIONAL RADIATION USING LOW TEMPERATURE TECHNIQUES (PHY-8014184 A01)*; 12 MONTHS $315,000

MEYERHOF, WALTER E; *HIGH-ENERGY ATOMIC PHYSICS (PHY-8015348)*; 12 MONTHS $150,000

EVERITT, CHARLES W, AND CABRERA, BLAS; *PRECISE DETERMINATIONS OF H/M IN ROTATING SUPERCONDUCTING RINGS (DMR-8026007*)*; 12 MONTHS $43,000

SEROT, BRIAN D, AND WALECKA, JOHN D; *STUDIES IN THEORETICAL PHYSICS (PHY-8107395)*; 12 MONTHS $118,000

SEROT, BRIAN D, AND WALECKA, JOHN D; *STUDIES IN THEORETICAL PHYSICS (PHY-8107395 A01)*; 12 MONTHS $130,000

HOFSTADTER, ROBERT; *HIGH ENERGY PHYSICS PROGRAM (PHY-8107396)*; 12 MONTHS $455,000

HOFSTADTER, ROBERT; *STUDY OF RARE MUON DECAYS (PHY-8115559)*; 12 MONTHS $128,000

UNIVERSITY OF CALIFORNIA, BERKELEY

BINGHAM, HARRY H; *HIGH ENERGY PARTICLE PHYSICS (PHY-7702487 A05)*; $29,676

SACHS, RAINER K; *GENERAL RELATIVITY AND COSMOLOGY (PHY-7913146 A02)*; 12 MONTHS $50,000

MANDELSTAM, STANLEY, AND WICHMANN, EYVIND H; *PHYSICS: THEORY OF ELEMENTARY PARTICLES (PHY-7923251 A01)*; 12 MONTHS $161,769

SAYKALLY, RICHARD J; *INFRARED LASER SPECTROSCOPY OF TRANSIENT SPECIES (CHE-8007042 A01*)*; 12 MONTHS $15,000

SMOOT, GEORGE F; *SPECTRUM OF THE COSMIC MICROWAVE BACKGROUND RADIATION (PHY-8015694*)*; 12 MONTHS $33,800

PRICE, P BUFORD; *SEARCH FOR EXOTIC, HIGHLY CHARGED PARTICLES AT PEP (PHY-8024128)*; 12 MONTHS $54,000

PRICE, P B; *SEARCH FOR EXOTIC, HIGHLY CHARGED PARTICLES AT PEP (PHY-8024128 A01)*; $6,910

BINGHAM, HARRY H; *HIGH ENERGY PARTICLE PHYSICS (PHY-8106766)*; 12 MONTHS $249,737

FELDMAN, JACOB; *TOPICS IN ANALYSIS, PROBABILITY AND MATHEMATICAL PHYSICS (MCS-8107086*)*; 12 MONTHS $7,000

UNIVERSITY OF CALIFORNIA, DAVIS

BRADY, F PAUL, AND ROMERO, JUAN L; *NEUTRON SCATTERING AND REACTIONS (PHY-7926282 A01)*; 12 MONTHS $148,925

UNIVERSITY OF CALIFORNIA, IRVINE

REINES, FREDERICK, AND CHEN, HERBERT H; *NEUTRINO ELECTRON ELASTIC SCATTERING AT THE CLINTON P. ANDERSON MASON FACILITY AT LOS ALAMOS (PHY-7523206 A04)*; $180,000

CHEN, HERBERT H, AND REINES, FREDERICK; *NEUTRINO ELECTRON ELASTIC SCATTERING AT THE CLINTON P. ANDERSON MESON FACILITY AT LOS ALAMOS (PHY-7523206 A05)*; 12 MONTHS $300,000

RYNN, NATHAN; *BASIC RESEARCH IN PLASMA PHYSICS (PHY-8009800 A01)*; 12 MONTHS $20,000

RYNN, NATHAN, AND BOEHMER, HEINRICH; *BASIC RESEARCH IN PLASMA PHYSICS (PHY-8009800 A02)*; 12 MONTHS $209,000

NEWMAN, RILEY D; *DEVELOPMENT OF CRYOGENIC TORSION BALANCES (PHY-8112993*)*; 12 MONTHS $55,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

WONG, ALFRED Y, AND DIMONTE, GUY; *HIGHLY NONLINEAR PHENOMENA AND PHYSICS OF CONFINEMENT/INDUS. UNIV. COOP PROGRAM (PHY-7908480 A02*)*; 12 MONTHS $129,689

STENZEL, REINER L; *MAGNETIC TURBULENCE IN PLASMAS WITH MAGNETIC NULL POINTS (PHY-7923187 A01)*; 12 MONTHS $90,000

SCHLEIN, PETER E; *PP AND PP HADRON PHYSICS AT THE CERN INTERSECTING STORAGE RINGS (PHY-7924766 A02)*; 12 MONTHS $335,000

SCHLEIN, PETER E; *PP AND PP HADRON PHYSICS AT THE CERN INTERSECTING STORAGE RINGS (PHY-7924766 A03)*; $135,000

CORNWALL, JOHN M; *THEORETICAL HIGH ENERGY PHYSICS (PHY-8020144)*; 12 MONTHS $192,049

DAWSON, JOHN M, AND LIN, ANTHONY T; *COMPUTER SIMULATION OF PLASMAS AT UCLA (PHY-8026048)*; 12 MONTHS $116,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

MASEK, GEORGE E; *HIGH ENERGY PHYSICS RESEARCH (PHY-7923770 A01)*; 12 MONTHS $307,836

MASEK, GEORGE E; *HIGH ENERGY PHYSICS RESEARCH (PHY-7923770 A02)*; $102,000

GOODKIND, JOHN M; *TEST OF GRAVITATIONAL INVERSE SQUARE LAW BETWEEN FORTY-FIVE CENTIMETERS AND ONE METER (PHY-8008166)*; 12 MONTHS $24,000

MALMBERG, JOHN H; *FUNDAMENTAL PROCESSES IN PLASMAS (PHY-8009326 A01)*; 12 MONTHS $323,000

SWANSON, ROBERT A; *EXPERIMENTAL RESEARCH IN THE PHYSICS OF ELEMENTARY PARTICLES (PHY-8014185 A02)*; $37,943

SWANSON, ROBERT A; *EXPERIMENTAL RESEARCH IN THE PHYSICS OF ELEMENTARY PARTICLES (PHY-8014185 A03)*; 12 MONTHS $171,000

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

KOHN, WALTER, SUGAR, ROBERT L, SAWYER, RAYMOND F, SCALAPINO, DOUGLAS J, AND HARTLE, JAMES B; *INSTITUTE FOR THEORETICAL PHYSICS (PHY-7727084 A02*)*; 12 MONTHS $900,000

SAWYER, RAYMOND F, CARDY, JOHN L, FULCO, JOSE R, AND SUGAR, ROBERT L; *PROBLEMS IN THEORETICAL PHYSICS (PHY-8018938)*; 24 MONTHS $304,207

HARTLE, JAMES B, AND SAWYER, RAYMOND F; *RESEARCH IN GENERAL RELATIVITY AND RELATIVISTIC ASTROPHYSICS (PHY-8107384)*; 12 MONTHS $85,894

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

NAUENBERG, MICHAEL, BROWER, RICHARD C, PRIMACK, JOEL K, AND RUDNICK, JOSEPH; *THEORY OF PARTICLE PHYSICS AND PHASE TRANSITIONS (PHY-7822253 A03*)*; 12 MONTHS $85,000

UNIVERSITY OF SOUTHERN CALIFORNIA

COOKE, WILLIAM E; *STUDIES OF AUTOIONIZING STATES OF ALKALINE EARTH ATOMS (PHY-7916444 A01)*; 12 MONTHS $59,500

LAMBROPOULOS, P; *NEW EFFECTS IN MULTIPHOTON ATOMIC AND MOLECULAR PROCESSES (PHY-8100251)*; 12 MONTHS $56,471

SHAKESHAFT, ROBIN; *SOME PROBLEMS IN THEORETICAL ATOMIC PHYSICS (PHY-8119010)*; 24 MONTHS $42,163

COLORADO

ASPEN CENTER FOR PHYSICS

ABRAHAMS, ELIHU, CRONIN, JAMES W, ANDERSON, PHILIP W, AND CARRUTHERS, PETER A; *SUMMER WORKSHOP ON CRITICAL PROBLEMS IN PHYSICS AND ASTROPHYSICS (PHY-8107358*)*; 12 MONTHS $76,000

COLORADO STATE UNIVERSITY

FAIRBANK, WILLIAM M; *A SPECTROSCOPIC SEARCH FOR QUARKS (PHY-8106763)*; 12 MONTHS $53,000

UNIVERSITY OF COLORADO AT BOULDER

MCCRAY, RICHARD A, COOPER, JOHN, AND LINEBERGER, W CARL; *RESEARCH IN ATOMIC AND MOLECULAR PHYSICS AND RELATED AREAS AT THE JOINT INSTITUTE FOR LABORATORY ASTROPHYSICS (PHY-7904928 A04)*; 12 MONTHS $1,020,000

CONNECTICUT

UNIVERSITY OF CONNECTICUT

RUSSEK, ARNOLD, AND KESSEL, QUENTIN; *SEVENTH INTERNATIONAL SEMINAR ON ION-ATOM COLLISIONS (ISIAC VII); GATLINBURG, TENNESSEE; JULY 23 & 24, 1981 (PHY-8105113)*; 6 MONTHS $2,500

KESSEL, QUENTIN; *INNER-SHELL EXCITATIONS IN HEAVY ION-ATOM COLLISIONS (PHY-8106915)*; 12 MONTHS $69,486

YALE UNIVERSITY

HUGHES, VERNON W, KOCH, PETER M, AND LUBELL, MICHAEL S; *FUNDAMENTAL SPECTROSCOPIC AND COLLISION STUDIES OF SIMPLE ATOMS (PHY-7825655 A02)*; $21,028

DETWEILER, STEVEN L, AND MONCRIEF, VINCENT; *RELATIVISTIC ASTROPHYSICS AND GRAVITATION THEORY (PHY-7916482 A03)*; 12 MONTHS $19,300

HERZENBERG, ARVID; *CALCULATIONS ON ELECTRON-MOLECULE SCATTERING (PHY-7921995 A01)*; 12 MONTHS $35,000

HINDS, EDWARD A; *MEASUREMENTS OF PARITY NONCONSERVATION IN HYDROGEN AND DEUTERIUM USING MICROWAVE TRANSITIONS IN THE 2S STATE (PHY-7925353 A01)*; 12 MONTHS $129,001

HERZENBERG, ARVID, AND HYMAN, HOWARD; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THEORETICAL INVESTIGATION OF ELECTRON IMPACT EXCITATION PROCESSES (PHY-8005467 A02*)*; 12 MONTHS $10,588

LICHTEN, WILLIAM; *LASER SPECTROSCOPY OF BASIC ATOMS (PHY-8020465)*; 12 MONTHS $75,457

CALDWELL, C D; *EXCITED-STATE ION PRODUCTION AND ANGULAR DISTRIBUTIONS IN PHOTOIONIZATION (PHY-8021582)*; 12 MONTHS $90,057

KOCH, PETER M; *PRECISE SPECTROSCOPIC STUDIES AND COLLISION PROCESSES IN AN INTENSE ELECTRIC FIELD (PHY-8026548)*; 9 MONTHS $61,000

MOHR, PETER J; *QUANTUM ELECTRODYNAMICS OF SIMPLE ATOMIC SYSTEMS (PHY-8026549)*; 12 MONTHS $28,655

HUGHES, VERNON W, AND HINDS, EDWARD A; *FUNDAMENTAL STUDIES IN ATOMIC PHYSICS (PHY-8105035)*; 12 MONTHS $75,000

BERNSTEIN, IRA B; *TOPICS IN THEORETICAL PLASMA PHYSICS (PHY-8107291)*; 24 MONTHS $61,908

HUGHES, VERNON W, AND EGAN, PATRICK O; *DOPPLER-FREE TWO-PHOTON LASER SPECTROSCOPY OF POSITRONIUM (PHY-8108680)*; 12 MONTHS $61,647

DELAWARE

FRANKLIN INSTITUTE-BARTOL RESEARCH FOUNDATION

GAISSER, THOMAS K; *A PROGRAM OF COSMIC RAY CALCULATIONS (PHY-8008901 A01)*; 12 MONTHS $49,975

PITTEL, STUART; *A THEORETICAL STUDY OF NUCLEAR COLLECTIVE MOTION USING THE INTERACTING BOSON APPROXIMATION (PHY-8015342*)*; 24 MONTHS $10,000

UNIVERSITY OF DELAWARE

HILL, ROBERT N; *LOWER BOUNDS TO EIGENVALUES IN ATOMIC PHYSICS (PHY-8106771*)*; 12 MONTHS $15,200

DISTRICT OF COLUMBIA

AMERICAN UNIVERSITY

CHERTOK, BENSON T; *MEASUREMENT OF THE ELASTIC ELECTRON-PROTON CROSS SECTION AT LARGE MOMENTUM TRANSFER (PHY-8108484)*; 12 MONTHS $280,000

CATHOLIC UNIVERSITY OF AMERICA

CRANNELL, HALL L, FAGG, L W, AND SOBER, DANIEL I; *NUCLEAR STRUCTURE WITH INTERMEDIATE ENERGY ELECTRONS AND PHOTONS (PHY-7923968 A01)*; 12 MONTHS $156,783

GEORGETOWN UNIVERSITY

LAMBERT, JAMES M, AND TREADO, PAUL A; *FEW BODY SYSTEMS: STRUCTURES AND MECHANISMS (PHY-7923262 A01)*; 12 MONTHS $33,101

FLORIDA

FLORIDA STATE UNIVERSITY

PETROVICH, FRED, AND PHILPOTT, R J; *RESEARCH IN MICROSCOPIC THEORY OF NUCLEAR REACTIONS (PHY-7826370 A02)*; 12 MONTHS $71,500

SHELINE, RAYMOND K; *EXPERIMENTAL AND THEORETICAL TESTS OF NUCLEAR MODELS (PHY-7908395 A02)*; 12 MONTHS $81,000

FOX, JOHN D; *NUCLEAR REACTIONS AND STRUCTURE (PHY-8005174 A02)*; 12 MONTHS $549,800

PLENDL, HANS S; *NUCLEAR AND HYPERNUCLEAR STRUCTURE STUDIES WITH PION-INDUCED REACTIONS (PHY-8100230)*; 12 MONTHS $35,000

LANNUTTI, JOSEPH E; *CONFERENCE ON PERTURBATIVE QUANTUM CHROMODYNAMICS (PHY-8107359)*; 6 MONTHS $2,000

UNIVERSITY OF FLORIDA

OHRN, YNGVE, AND SABIN, JOHN R; *WORKSHOP ON PERTURBATION THEORY AT LARGE ORDER; PALM COAST, FLORIDA; MARCH 2-4, 1981 (PHY-8020897)*; 12 MONTHS $2,000

GEORGIA

GEORGIA INSTITUTE OF TECHNOLGY MAIN CAMPUS

LANG, TUNIS P, AND AHRENS, R M; *LOW ENERGY EXPERIMENT TO MEASURE A WEAK COUPLING OF THE NEUTRINO CURRENT (PHY-8002100 A01)*; 12 MONTHS $100,000

UNIVERSITY OF GEORGIA

SCOTT, ALAN, AND BAKER, F TODD; *INELASTIC SCATTERING OF INTERMEDIATE ENERGY PROTONS NUCLEAR STRUCTURE AND REACTION MECHANISMS (PHY-8108707)*; 12 MONTHS $75,000

HAWAII

UNIVERSITY OF HAWAII-MANOA

. PETERSON, VINCENT Z; *INTERNATIONAL CONFERENCE ON NEUTRINO PHYSICS AND ASTROPHYSIC; HONOLULU, HAWAII; JULY 1-8, 1981 (PHY-8108760)*; 12 MONTHS $4,000

ILLINOIS

DEPARTMENT OF ENERGY-CHICAGO OPERATIONS OFFICE

LEDERMAN, LEON M, AND HUSON, F RUSSELL; *SUMMER SCHOOL ON HIGH ENERGY PARTICLE ACCELERATORS; BATAVIA, ILLINOIS; JULY 13-24, 1981 (PHY-8113319)*; 12 MONTHS $7,000

ILLINOIS INSTITUTE OF TECHNOLOGY

TUNG, WU-KI, AND JOHNSON, PORTER W; *THEORETICAL STUDIES IN ELEMENTARY PARTICLE PHYSICS (PHY-8106908)*; 24 MONTHS $59,850

BURNSTEIN, RAY A, RUBIN, HOWARD A, AND HANLON, JAMES E; *NEUTRINO INTERACTIONS ON NEUTRONS AND PROTONS (PHY-8111728*)*; 12 MONTHS $100,000

NORTHERN ILLINOIS UNIVERSITY

ALBRIGHT, CARL H; *HIGH ENERGY NEUTRINO INTERACTIONS (PHY-7910639 A01)*; 24 MONTHS $23,883

NORTHWESTERN UNIVERSITY

SEGEL, RALPH E; *INTERMEDIATE ENERGY NUCLEAR RESEARCH (PHY-7909270 A01)*; 12 MONTHS $43,000

SEGEL, RALPH E; *INTERMEDIATE ENERGY NUCLEAR RESEARCH (PHY-7909270 A02)*; $14,869

UNIVERSITY OF CHICAGO

ABELLA, ISAAC D; *LASER COHERENT TRANSIENT STUDIES IN PLASMAS (PHY-7908639 A01)*; 12 MONTHS $43,200

NAMBU, YOICHIRO, AND FREUND, PETER G; *THEORETICAL RESEARCH IN ELEMENTARY PARTICLE PHYSICS (PHY-7923669 A01)*; 12 MONTHS $186,000

CRONIN, JAMES W, AND PILCHER, JAMES E; *ELEMENTARY PARTICLE PHYSICS (PHY-8002441 A02)*; 12 MONTHS $1,700,000

CHANDRASEKHAR, S, GEROCH, ROBERT P, IPSER, JAMES R, AND WALD, ROBERT M; *RESEARCH IN GRAVITATIONAL PHYSICS AND RELATIVISTIC ASTROPHYSICS (PHY-8026043)*; 12 MONTHS $176,000

OKA, TAKESHI; *INFRARED SPECTROSCOPY OF MOLECULAR IONS (PHY-8113097*)*; 12 MONTHS $90,000

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

RHODES, CHARLES K; *STUDIES OF TWO-PHOTON EXCITATION AND COLLISIONAL PROCESSES IN MOLECULAR HYDROGEN AND OTHER SIMPLE ATOMIC AND MOLECULAR SYSTEMS (PHY-7827610 A03)*; 12 MONTHS $90,000

RHODES, CHARLES K; *STUDIES OF TWO-PHOTON EXCITATION AND COLLISIONAL PROCESSES IN MOLECULAR HYDROGEN AND OTHER SIMPLE ATOMIC AND MOLECULAR SYSTEMS (PHY-7827610 A04)*; 6 MONTHS $12,000

ABRAMS, ROBERT, GOLDBERG, HOWARD S, HALLIWELL, CLIVE, MARGULIES, SEYMOUR, AND SOLOMON, JULIUS; *STUDY OF HADRON JETS (PHY-8108493)*; 12 MONTHS $159,000

UNIVERSITY OF ILLINOIS AT URBANA

AXEL, PETER, AND HANSON, ALFRED O; *SUPERCONDUCTING ELECTRON ACCELERATORS AND NUCLEAR PHYSICS RESEARCH (PHY-7727281 A04)*; 4 MONTHS $1,100,000

BAYM, GORDON A, AND WORTIS, MICHAEL; *PROPERTIES OF SOLIDS AND MANY PARTICLE SYSTEMS (DMR-7821069 A03*)*; 12 MONTHS $30,600

PANDHARIPANDE, V R; *MICROSCOPIC THEORY OF NUCLEI, NUCLEAR, AND NEUTRON STAR MATTER (PHY-7826582 A02)*; 12 MONTHS $80,500

RAVENHALL, DAVID G, AND WYLD, HENRY W; *THEORETICAL PARTICLE AND NUCLEAR PHYSICS (PHY-7900273 A02)*; 12 MONTHS $198,500

SMARR, LARRY L; *NUMERICAL, THEORETICAL, AND ASTROPHYSICAL RELATIVITY (PHY-8001496 A01)*; 12 MONTHS $58,419

AXEL, PETER, AND HANSON, ALFRED O; *SUPERCONDUCTING ELECTRON ACCELERATORS AND NUCLEAR PHYSICS RESEARCH (PHY-8023603)*; 8 MONTHS $1,635,000

LAMB, FREDERICK K, PETHICK, C J, AND PINES, DAVID; *ASTROPHYSICAL APPLICATIONS OF MICROSCOPIC AND MANY-BODY PHYSICS (PHY-8025605)*; 12 MONTHS $162,660

FRAUENFELDER, HANS; *PARITY NONCONSERVATION IN THE STRONG INTERACTION (PHY-8103217)*; 24 MONTHS $144,000

NAYFEH, MUNIR H; *RESONANCE IONIZATION SPECTROSCOPY OF ATOMS (PHY-8109305)*; 12 MONTHS $37,500

STACK, JOHN D; *STUDIES IN LATTICE AND CONTINUUM FIELD THEORY (PHY-8109494)*; 24 MONTHS $31,200

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

SINGH, P P, AND MILLER, DANEIL W; *NUCLEAR STRUCTURE AND NUCLEAR PROCESSES AT INTERMEDIATE ENERGIES (PHY-7822774 A03)*; 12 MONTHS $4,100,000

POLLOCK, ROBERT E, SINGH, P P, AND MILLER, DANEIL W; *NUCLEAR STRUCTURE AND NUCLEAR PROCESSES AT INTRMEDIATE ENERGIES (PHY-7822774 A04)*; $490,000

WALKER, GEORGE E, AND LONDERGAN, JOHN T; *A THEORETICAL STUDY OF NUCLEAR STRUCTURE AND INTERMEDIATE ENERGY NUCLEAR REACTIONS (PHY-8007997 A01)*; 12 MONTHS $75,000

NEWTON, ROGER G; *INVESTIGATIONS IN THE THEORY AND INTERPRETATION OF PARTICLE COLLISIONS (PHY-8020457)*; 12 MONTHS $22,145

BENT, R D; *IUCF WORKSHOP ON PION PRODUCTION AND ABSORPTION IN NUCLEI; BLOOMINGTON, INDIANA; OCTOBER 22-24, 1981 (PHY-8116797)*; 6 MONTHS $5,119

PURDUE UNIVERSITY

SCHARENBERG, ROLF P; *THE STUDY OF RELATIVISTIC PROTON NUCLEUS COLLISIONS AND THE DETERMINATION OF NUCLEAR MOMENTS BY ACCELERATOR TECHNIQUES (PHY-7723364 A03)*; 6 MONTHS $50,000

ANDREW, KENNETH L; *ATOMIC EMISSION SPECTROSCOPY (PHY-7908644 A02)*; 12 MONTHS $60,000

SIMMS, PAUL C, AND RICKEY, FRANK A; *COLLECTIVE STRUCTURE OF MASS-100 NUCLEI (PHY-7919187 A02)*; 12 MONTHS $110,574

HAXTON, WICK C; *THEORETICAL STUDIES OF WEAK AND ELECTROMAGNETIC INTERACTIONS IN NUCLEI (PHY-8021374)*; 24 MONTHS $21,500

UNIVERSITY OF NOTRE DAME

KENNEY, V PAUL, BISWAS, NRIPENDRA N, CASON, NEAL M, AND SHEPHARD, WILLIAM D; *HIGH ENERGY ELEMENTARY PARTICLE PHYSICS (PHY-8007627 A01)*; $47,300

KENNEY, V PAUL, BISWAS, NRIPENDRA N, AND SHEPHARD, WILLIAM D; *HIGH ENERGY ELEMENTARY PARTICLE PHYSICS (PHY-8007627 A02)*; 12 MONTHS $398,000

MIHELICH, JOHN W, DARDEN, SPERRY E, FUNK, EMERSON G, AND KOLATA, JAMES J; *NUCLEAR STRUCTURE RESEARCH (PHY-8008224 A01)*; 12 MONTHS $499,887

MIHELICH, JOHN W; *NUCLEAR STRUCTURE RESEARCH (PHY-8008224 A02)*; $43,000

MARSHALEK, EUGENE R; *THEORETICAL STUDIES OF NUCLEAR STRUCTURE (PHY-8022206)*; 24 MONTHS $30,000

JOHNSON, WALTER R; *THE RELATIVISTIC RANDOM PHASE APPROXIMATION IN ATOMIC PHYSICS (PHY-8107382)*; 24 MONTHS $21,550

LIVINGSTON, ARTHUR E; *SPECTROSCOPY OF HIGHLY-IONIZED ATOMS (PHY-8111797)*; 12 MONTHS $65,500

POIRIER, JOHN A; *ELEMENTARY PARTICLE PHYSICS (PHY-8113897)*; 9 MONTHS $165,000

IOWA

UNIVERSITY OF IOWA

SAVAGE, WILLIAM R; *ACOUSTICS COLLOQUIUM AND RESEARCH WORKSHOP; IOWA CITY, IOWA; MAY 7-9, 1981 (PHY-8108953*)*; 12 MONTHS $1,049

KENTUCKY

UNIVERSITY OF KENTUCKY

MAC ADAM, KEITH B; *COLLISIONS OF IONS WITH HIGHLY EXCITED ATOMS (PHY-8007630 A01)*; 12 MONTHS $52,000

MAC ADAM, KEITH B; *COLLISIONS OF IONS WITH HIGHLY EXCITED ATOMS (PHY-8007630 A02)*; 6 MONTHS $40,000

WEIL, JESSE L; *NEUTRON AND PROTON INDUCED REACTIONS, NUCLEAR STRUCTURE STUDIES WITH NEUTRONS (PHY-8105572)*; 12 MONTHS $166,000

UNIVERSITY OF LOUISVILLE

KIELKOPF, JOHN F; *COLLISIONAL INTENSITY AND BROADENING EFFECTS ON ATOMIC SPECTRAL LINES (PHY-8013655 A01)*; 12 MONTHS $44,000

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

ZIMMERMAN, PETER D; *STUDY OF THE NUCLEAR RESPONSE IN DEEP INELASTIC ELECTRON SCATTERING AT INTERMEDIATE ENERGIES (PHY-7906571 A02)*; $9,253

ZIMMERMAN, PETER D; *STUDY OF THE NUCLEAR RESPONSE IN DEEP INELASTIC ELECTRON SCATTERING AT INTERMEDIATE ENERGIES (PHY-7906571 A03)*; 12 MONTHS $54,400

HAMILTON, WILLIAM O; *EXPERIMENTAL INVESTIGATIONS IN GRAVITATION (PHY-7914602 A01)*; 12 MONTHS $225,033

JONES, W V; *JAPANESE-AMERICAN COOPERATIVE EXPERIMENT TO STUDY THE NUCLEAR INTERACTIONS, CHARGE COMPOSITION, AND ENERGY SPECTRA OF COSMIC RAYS AT ENERGIES UP TO 10 14 EV (PHY-8003389 A01)*; 12 MONTHS $99,000

DRAAYER, JERRY P; *NUCLEAR STRUCTURE THEORY (PHY-8010661 A01)*; $21,000

MARYLAND

JOHNS HOPKINS UNIVERSITY

FULTON, THOMAS, FELDMAN, GORDON, AND KIM, CHUNG W; *SOME PROBLEMS IN THEORETICAL PHYSICS (PHY-7891504 A01)*; 24 MONTHS $189,600

JUDD, BRIAN R, AND ARMSTRONG, LLOYD J; *THEORY OF ATOMIC STRUCTURE (PHY-7921257 A01)*; 12 MONTHS $71,000

HENRY, RICHARD C, DAVIDSEN, ARTHUR F, JONES, FRANK C, AND RAMATY, REUVEN; *TEXAS SYMPOSIUM ON RELATIVISTIC ASTROPHYSICS (AST-8019568*)*; 6 MONTHS $3,300

PEVSNER, AIHUD; *HIGH ENERGY PARTICLE PHYSICS (PHY-8023687)*; 12 MONTHS $550,000

PEVSNER, AIHUD; *HIGH ENERGY PARTICLE PHYSICS (PHY-8023687 A01)*; $50,000

DOMOKOS, GABOR; *WORKSHOP ON CURRENT PROBLEMS IN PARTICLE THEORY 5, BALTIMORE MARYLAND; MAY 25-27, 1981 (PHY-8109610)*; 6 MONTHS $3,000

NATIONAL BUREAU OF STANDARDS

TAYLOR, BARRY N; *SECOND INTERNATIONAL CONFERENCE ON PRECISION MEASUREMENT AND FUNDAMENTAL CONSTANTS; JUNE 8-12, 1981; NATIONAL BUREAU OF STANDARDS; GAITHERSBURG, MARYLAND (PHY-8020685)*; 12 MONTHS $5,000

TAYLOR, BARRY N; *NATIONAL BUREAU OF STANDARDS PRECISION MEASUREMENT GRANTS PROGRAM (PHY-8100177*)*; 12 MONTHS $62,580

CELOTTA, ROBERT J; *SUPPORT OF INTERNATIONAL SYMPOSIUM ON CORRELATION AND POLARIZATION IN ELECTRON-ATOM COLLISIONS (PHY-8112865)*; 6 MONTHS $2,500

UNIVERSITY OF MARYLAND, COLLEGE PARK

BRILL, DIETER R; *THEORETICAL RESEARCH IN COSMOLOGY AND RELATIVITY (PHY-7906940 A02)*; 12 MONTHS $69,865

YODH, GAURANG B; *COSMIC RAY SPECTRA AND INVESTIGATION OF THE TIME STRUCTURE OF THE HADRONIC COMPONENTS OF AIR SHOWERS (PHY-7909272 A03)*; 12 MONTHS $150,058

WEBER, JOE, DAVIS, WILLIAM S, PAIK, HO-JUNG, AND RICHARD, JEAN PAUL; *RESEARCH AND DEVELOPMENT OF GRAVITATIONAL RADIATION ANTENNAS (PHY-7911975 A02)*; 12 MONTHS $283,000

SUCHER, JOSEPH; *FOUNDATIONS OF RELATIVISTIC QUANTUM THEORY, INTERACTIONS OF HADRONS, AND ELECTROMAGNETIC INTERACTIONS OF ELEMENTARY SYSTEMS (PHY-7993602 A01)*; 12 MONTHS $81,935

GRIEM, HANS R, AND DE SILVA, ALAN W; *PLASMA HEATING, LIGHT SCATTERING AND SPECTROSCOPY (PHY-8002905 A01)*; 12 MONTHS $142,472

BOYD, DEREK A, ELLIS, R F, AND LIU, CHUAN S; *HIGH TEMPERATURE PLASMAS (PHY-8003367 A01)*; 12 MONTHS $255,000

GREENBERG, OSCAR W, AND PATI, JOGESH C; *PARTICLE THEORY AND QUANTUM FIELD THEORY (PHY-8007389 A01)*; 12 MONTHS $99,680

LEE, Y C, AND CHEN, HSING H; *NONLINEAR METHODS IN PLASMA PHYSICS (PHY-8014189)*; 12 MONTHS $30,966

GINTER, MARSHALL L; *EXTENSION OF MULTICHANNEL QUANTUM DEFECT THEORY TO COMPLEX MULTILIMIT ELECTRONIC STRUCTURES (PHY-8016657 A01)*; 12 MONTHS $58,000

ROOS, PHILIP G; *EXPERIMENTAL NUCLEAR PHYSICS RESEARCH PROGRAM (PHY-8022787)*; 12 MONTHS $350,000

ROOS, PHILIP G, AND CHANT, NICHOLAS S; *A NEW MAGNETIC SPECTROMETER SYSTEM FOR INTERMEDIATE ENERGY PHYSICS AT THE INDIANA CYCLOTRON FACILITY (PHY-8025636)*; 24 MONTHS $363,171

TEPLITZ, VIGDOR L, AND SUCHER, JOSEPH; *ELEMENTARY PARTICLE THEORY (PHY-8107386)*; 24 MONTHS $6,380

WEINER, JOHN; *DIRECT OBSERVATION OF ION DIMER ELECTRONIC STATE TRANSITIONS IN CROSSED-BEAM STUDIES OF ASSOCIATIVE IONIZATION (PHY-8111743)*; 12 MONTHS $120,000

MASSACHUSETTS

AVCO CORPORATION-EVERETT RESEARCH LABORATORY INC

BONESS, M JOHN; *GASEOUS ELECTRONICS CONFERENCE, BOSTON, MASSACHUSETTS; OCTOBER 20-23, 1981 (PHY-8113159)*; 12 MONTHS $4,500

BOSTON UNIVERSITY

MILLER, JAMES P, AND ROBERTS, BRADLEY L; *EXOTIC ATOM STUDIES (PHY-7923778 A01)*; 12 MONTHS $52,500

BOOTH, EDWARD C; *PHOTOPRODUCTION OF PIONS FROM COMPLEX NUCLEI (PHY-8007967 A01)*; 12 MONTHS $117,496

BRANDEIS UNIVERSITY

BERKO, STEPHAN, AND CANTER, KARL F; *POSITRONIUM EXPERIMENTS (PHY-7824702 A02)*; 12 MONTHS $56,376

FIVE COLLEGES INC

BERGER, MELVYN S; *A CONFERENCE ON NONLINEAR GENERALIZATIONS ON MAXWELL EQUATIONS; AMHERST, MASSACHUSETTS; OCTOBER 16-19, 1981 (MCS-8113674*)*; 6 MONTHS $900

HARVARD UNIVERSITY

COLEMAN, SIDNEY R, GLASHOW, SHELDON L, AND WEINBERG, STEVEN; *INTERACTIONS OF PARTICLES AND FIELDS (PHY-7732864 A03)*; 12 MONTHS $297,046

JAFFE, ARTHUR M; *MATHEMATICAL PHYSICS (PHY-7916812 A02*)*; 12 MONTHS $61,500

PRESS, WILLIAM H, AND EARDLEY, DOUGLAS M; *COSMOLOGY, RELATIVITY, AND THEORETICAL ASTROPHYSICS (PHY-8007351 A01)*; 12 MONTHS $134,200

RAMSEY, NORMAN F; *EXPERIMENT TO TEST TIME REVERSAL SYMMETRY (PHY-8008015)*; 12 MONTHS $40,000

PIPKIN, FRANCIS M, AND LUNDEEN, STEPHEN R; *ATOMIC PHYSICS EXPERIMENTS USING FAST ATOMIC BEAMS (PHY-8026547)*; 12 MONTHS $175,000

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

WEISS, RAINER, AND LINSAY, PAUL S; *INTERFEROMETRIC BROAD BAND GRAVITATIONAL ANTENNA (PHY-7924374 A02)*; 12 MONTHS $371,784

EZEKIEL, SHAOUL; *EXPERIMENTAL AND THEORETICAL INVESTIGATIONS OF INTERACTION OF INTENSE RADIATION WITH ATOMS (PHY-7909739 A02)*; 12 MONTHS $85,000

KLEPPNER, DANIEL, AND PRITCHARD, DAVID E; *ATOMIC AND MOLECULAR PHYSICS (PHY-7909743 A02)*; 12 MONTHS $250,000

JAVAN, ALI; *INVESTIGATION OF ATOMIC AND MOLECULAR PROCESSES WITH MODERN PRECISION SPECTROSCOPY (PHY-7914521 A03)*; 6 MONTHS $160,000

FELD, MICHAEL S; *LASER INDUCED NUCLEAR ORIENTATION (PHY-8103075)*; 12 MONTHS $65,000

SHAPIRO, IRWIN I; *TESTS OF THEORIES OF GRAVITATION (PHY-8106036)*; 12 MONTHS $184,000

CHENG, HUNG, AND FREEDMAN, DANIEL Z; *RESEARCH IN THEORETICAL HIGH-ENERGY PHYSICS (PHY-8107394)*; 12 MONTHS $116,000

HAUS, HERMANN A, AND FREED, CHARLES; *INVESTIGATION OF PRESSURE SHIFT IN CO2 ISOTOPES (PHY-8111398)*; 12 MONTHS $55,000

FIELD, ROBERT W; *DIATOMIC MOLECULE ELECTRONIC SPECTROSCOPY BEYOND MOLECULAR CONSTANTS (PHY-8112546)*; 12 MONTHS $90,000

NORTHEASTERN UNIVERSITY

GOLDBERG, HYMAN, AARON, RONALD, AND PANCHERI-SRIVAS, G; *ELEMENTARY PARTICLE THEORY (PHY-7891532 A03)*; 12 MONTHS $74,678

VON GOELER, EBERHARD, AND WEINSTEIN, ROY; *ELEMENTARY PARTICLE PHYSICS EXPERIMENTS (PHY-7920020 A02)*; 12 MONTHS $266,000

GETTNER, MARVIN, FAISSLER, WILLIAM, AND GOTTSCHALK, BERNARD; *EXPLORATION FOR NEW PHYSICS AT PEP (PHY-7920821 A01)*; 12 MONTHS $150,350

GARELICK, DAVID A, AND GLAUBMAN, MICHAEL J; *QUARKS AND LEPTONS (PHY-7921990 A01)*; 12 MONTHS $105,000

GARELICK, DAVID A, AND GLAUBMAN, MICHAEL J; *QUARKS AND LEPTONS (PHY-7921990 A02)*; $10,000

ARNOWITT, RICHARD, AND NATH, PRAN; *RESEARCH IN PARTICLE THEORY (PHY-8008333 A01)*; $18,700

CELMASTER, WILLIAM; *QUANTUM CHROMODYNAMICS BEYOND THE LEADING ORDER OF PERTURBATION THEORY (PHY-8107156)*; 24 MONTHS $27,000

MACHACEK, MARIE; *GAUGE THEORIES AND THE UNIFICATION OF ELEMENTARY PARTICLE INTERACTIONS (PHY-8107393)*; 24 MONTHS $14,600

SOUTHEASTERN MASSACHUSETTS UNIVERSITY

RUSSELL, JOHN J; *EXPERIMENTAL STUDIES OF QUARK INTERACTIONS (PHY-8025435)*; 12 MONTHS $51,000

TUFTS UNIVERSITY

FORD, LAWRENCE H; *INTERACTING QUANTUM FIELD THEORY IN CURVED SPACETIME (PHY-8106978)*; 24 MONTHS $23,000

UNIVERSITY OF MASSACHUSETTS, AMHERST

DONOGHUE, JOHN F; *THEORETICAL ELEMENTARY PARTICLE PHYSICS (PHY-8016167)*; 12 MONTHS $26,500

KREISLER, MICHAEL N, RABIN, MONROE S, AND JENSEN, DOUGLAS A; *HIGH ENERGY PHYSICS - SPARK CHAMBER PROGRAM (PHY-8102876)*; 12 MONTHS $305,000

KREISLER, MICHAEL N, JENSEN, DOUGLAS A, AND RABIN, MONROE S; *HIGH ENERGY PHYSICS-SPARK CHAMBER PROGRAM (PHY-8102876 A02)*; $100,000

MICHIGAN

MICHIGAN STATE UNIVERSITY

SMITH, GERALD A; *HIGH ENERGY INTERACTIONS (PHY-7819759 A02)*; 12 MONTHS $379,878

BLOSSER, HENRY G, AND AUSTIN, SAM M; *RESEARCH WITH HEAVY IONS USING A 500 MEV SUPERCONDUCTING CYCLOTRON (PHY-7823696 A03)*; $400,000

ABOLINS, MARIS A; *STUDIES OF INTERACTIONS OF ELEMENTARY PARTICLES (PHY-7828071 A03)*; 12 MONTHS $232,443

MC MANUS, HUGH; *NUCLEAR SCATTERING AND STRUCTURE (PHY-7922054 A01)*; 12 MONTHS $33,500

BLOSSER, HENRY G, AND AUSTIN, SAM M; *RESEARCH WITH HEAVY IONS USING A 500 MEV SUPERCONDUCTING CYCLOTRON (PHY-8017605)*; 10 MONTHS $1,800,000

BLOSSER, HENRY G; *RESEARCH WITH HEAVY IONS USING A 500 MEV SUPERCONDUCTING CYCLOTRON (PHY-8017605 A01*)*; $364,000

BLOSSER, HENRY G, AUSTIN, SAM M, AND HIROSHI, TOKI; *RESEARCH WITH HEAVY IONS USING A 500 MEV SUPERCONDUCTING CYCLOTRON (PHY-8017605 A02*)*; $11,000

PUMPLIN, JON C, AND REPKO, WAYNE W; *THEORETICAL STUDIES OF ELECTROMAGNETIC AND HADRONIC INTERACTIONS (PHY-8105090)*; 12 MONTHS $54,000

UNIVERSITY OF MICHIGAN-ANN ARBOR

JANECKE, JOACHIM W, AND BECCHETTI, FREDERICK D; *EXPERIMENTAL NUCLEAR SCIENCE (PHY-7807754 A04)*; 12 MONTHS $105,000

SAVIT, ROBERT; *BASIC RESEARCH ON COOPERATIVE AND CRITICAL PHENOMENA IN FIELD THEORIES AND STATISTICAL SYSTEMS (PHY-7808426 A02)*; 12 MONTHS $40,092

FEDERBUSH, PAUL; *APPLICATIONS OF FUNCTIONAL ANALYSIS IN ELEMENTARY PARTICLE PHYSICS AND STATISTICAL MECHANICS (PHY-7905688 A01)*; 24 MONTHS $34,166

JONES, LAWRENCE W, LONGO, MICHAEL J, AND OVERSETH, OLIVER E; *ELEMENTARY PARTICLE PHYSICS (PHY-7909312 A03)*; 12 MONTHS $463,528

WILLIAMS, WILLIAM L, AND LEWIS, ROBERT R; *A SEARCH FOR NEUTRAL CURRENT INTERACTIONS IN ATOMIC H AND D (PHY-7925044 A01)*; 12 MONTHS $152,000

KANE, GORDON L, AND SULAK, LAWRENCE R; *SEMINAR ON NUCLEON DECAY; ANN ARBOR, MICHIGAN; APRIL 24-26, 1981 (PHY-8015786)*; 6 MONTHS $2,000

RICH, ARTHUR, GIDLEY, DAVID W, AND NEWMAN, DAVID E; *INVESTIGATIONS OF LOW ENERGY LEPTON INTERACTIONS (PHY-8107573)*; 12 MONTHS $190,000

NEWMAN, DAVID E, AND RICH, ARTHUR; *PRECISION POSITRON POLARIMETRY - A NEW TECHNIQUE IN WEAK INTERACTION STUDIES (PHY-8109269)*; 12 MONTHS $60,000

WIEMAN, CARL E; *PRECISION MEASUREMENT OF THE ELECTROWEAK COUPLING CONSTANTS (PHY-8111118)*; 12 MONTHS $105,000

WAYNE STATE UNIVERSITY

STEIN, TALBERT S, AND KAUPPILA, WALTER E; *EXPERIMENTAL STUDIES OF POSITRON SCATTERING BY ATOMS AND MOLECULES (PHY-8007984 A01)*; 12 MONTHS $132,275

MINNESOTA

UNIVERSITY OF MINNESOTA

FREIER, PHYLLIS S, AND WADDINGTON, C J; *CHARACTERISTICS OF VERY HIGH ENERGY NUCLEUS-NUCLEUS INTERACTIONS (PHY-7918439 A01)*; 12 MONTHS $48,547

GREENLEES, GEORGE W; *OPTICAL HYPERFINE STRUCTURE AND ISOTOPIC SHIFT STUDIES (PHY-7921336 A01)*; 12 MONTHS $97,000

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

WERNER, SAMUEL A; *NEUTRON SCHRODINGER WAVES (PHY-7920979 A01)*; 12 MONTHS $61,267

UNIVERSITY OF MISSOURI, ROLLA

PARK, JOHN T, AND PEACHER, JERRY L; *THE PHYSICS OF ONE ELECTRON AND PSEUDO ONE-ELECTRON COLLISION SYSTEMS (PHY-8106050)*; 12 MONTHS $105,000

WASHINGTON UNIVERSITY

CLARK, JOHN W; *MICROSCOPIC THEORY OF QUANTUM FLUIDS AND EXTENDED NUCLEAR SYSTEMS (DMR-8006229 A01*)*; 12 MONTHS $13,500

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

MACEK, JOSEPH; *ALIGNMENT AND ORIENTATION IN ATOMIC COLLISIONS (PHY-7906348 A02)*; 12 MONTHS $62,400

RUDD, M, JAECKS, DUANE H, AND BURNS, DONAL; *INELASTIC PROCESSES IN ATOMIC COLLISIONS (PHY-8025589)*; 12 MONTHS $200,000

STARACE, ANTHONY F; *THEORY OF ELECTRON CORRELATIONS IN ATOMIC PROCESSES (PHY-8026055)*; 24 MONTHS $26,000

NEW HAMPSHIRE

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

BALLING, LUDWIG C; *SPECTROSCOPY OF ALKALI ATOMS TRAPPED IN RARE-GAS MATRICES (PHY-8005511 A01)*; 12 MONTHS $41,480

HARRINGTON, BARRY J, AND SHEPARD, HARVEY K; *QUANTUM FIELD THEORY (PHY-8106768)*; 12 MONTHS $18,918

NEW JERSEY

INSTITUTE FOR ADVANCED STUDY

BAHCALL, JOHN N, AND DYSON, FREEMAN J; *THEORETICAL PHYSICS (PHY-7919884 A03)*; 12 MONTHS $186,000

ADLER, STEPHEN L, BAHCALL, JOHN N, AND DASHEN, ROGER F; *PURCHASE AND OPERATION OF A COMPUTER FOR RESEARCH IN ASTROPHYSICS AND HIGH ENERGY PHYSICS (PHY-8009817*)*; 12 MONTHS $53,181

PRINCETON UNIVERSITY

SIMON, BARRY M; *MATHEMATICAL PHYSICS (MCS-7901885 A05*)*; 12 MONTHS $19,995

WILKINSON, DAVID T; *GRAVITATION, RELATIVITY, AND COSMOLOGY (PHY-7921595 A02)*; 12 MONTHS $304,840

WIGHTMAN, ARTHUR S; *THEORETICAL PHYSICS (PHY-7923952 A01)*; 12 MONTHS $80,482

LIEB, ELLIOTT; *STATISTICAL MECHANICS AND THE QUANTUM AND CLASSICAL MANY BODY PROBLEM (PHY-7925390 A02*)*; 12 MONTHS $61,071

COYNE, DONALD G, AND O'NEILL, GERARD K; *ELEMENTARY PARTICLE PHYSICS (PHY-7916461 A02)*; 12 MONTHS $290,000

COYNE, DONALD G, AND O'NEILL, GERARD K; *ELEMENTARY PARTICLE PHYSICS (PHY-7916461 A03)*; $170,000

TREIMAN, SAM; *THEORETICAL RESEARCH IN ELEMENTARY PARTICLE PHYSICS AND QUANTUM GRAVITY (PHY-8019754)*; 12 MONTHS $294,154

WIGNER, EUGENE P; *THEORETICAL RESEARCH IN NUCLEAR PHYSICS (PHY-8105301)*; 24 MONTHS $21,500

CALAPRICE, FRANK P, SHERR, RUBBY, AND NAUMANN, ROBERT A; *LOW ENERGY NUCLEAR PHYSICS (PHY-8105673)*; 12 MONTHS $700,000

CALAPRICE, FRANK P, NAUMANN, ROBERT A, KOUZES, RICHARD T, AND SHERR, RUBBY; *PURCHASE OF PRINCETON CYCLOTRON DATA ACQUISITION AND ANALYSIS COMPUTER SYSTEM (PHY-8113177)*; 12 MONTHS $40,900

RUTGERS UNIVERSITY-BUSCH CAMPUS

DEVLIN, THOMAS J; *EXPERIMENTAL ELEMENTARY PARTICLE PHYSICS (PHY-8021261)*; 12 MONTHS $225,680

PLANO, RICHARD J; *EXPERIMENTAL STUDIES OF THE STRONG AND WEAK INTERACTIONS (PHY-8023190)*; 12 MONTHS $250,000

DEVLIN, THOMAS J, PLANO, RICHARD J, SANNES, FELIX B, AND WATTS, TERENCE L; *EQUIPMENT FOR ELEMENTARY PARTICLE PHYSICS RESEARCH (PHY-8109341)*; 12 MONTHS $245,000

RUTGERS UNIVERSITY

LEBOWITZ, JOEL L; *STATISTICAL MECHANICS (PHY-7915990 A02*)*; 12 MONTHS $33,824

SHAPIRO, JOEL A, LOVELACE, CLAUD W, AND BRONZAN, JOHN B; *THEORETICAL HIGH ENERGY PHYSICS (PHY-7921407 A01)*; 24 MONTHS $251,368

ZAMICK, LARRY, AND MEKJIAN, ARAM; *THEORETICAL NUCLEAR PHYSICS (PHY-7902961 A02)*; 12 MONTHS $87,000

WATTS, TERENCE L; *JETS IN HADRON COLLISIONS (PHY-7921359 A01)*; 12 MONTHS $30,440

GLASHAUSSER, CHARLES; *ELASTIC AND INELASTIC SCATTERING OF INTERMEDIATE ENERGY PROTONS (PHY-7923223 A01)*; 12 MONTHS $65,000

TEMMER, GEORGES M; *RESEARCH WITH TANDEM PARTICLE ACCELERATOR (PHY-7923340 A01)*; 12 MONTHS $560,000

TEMMER, GEORGES M; *RESEARCH WITH TANDEM PARTICLE ACCELERATOR (PHY-7923340 A02*)*; $55,000

SANNES, FELIX B; *RESEARCH IN EXPERIMENTAL ELEMENTARY PARTICLE PHYSICS (PHY-7923690 A03)*; 12 MONTHS $193,200

MEKJIAN, ARAM; *NINETEENTH ANNUAL EASTERN THEORETICAL PHYSICS CONFERENCE; NEW BRUNSWICK, NEW JERSEY; NOVEMBER 21-23, 1980 (PHY-8014969)*; 12 MONTHS $5,500

STEVENS INSTITUTE OF TECHNOLOGY

SEIDL, MILOS; *INTERACTION OF ELECTRONS AND IONS WITH PLASMA (PHY-7908555 A02)*; 12 MONTHS $150,000

ANDERSON, JAMES L; *APPROXIMATION METHODS FOR ORBIT CALCULATIONS OF SLOWLY MOVING SYSTEMS IN GENERAL RELATIVITY WITH APPLICATION TO THE BINARY PULSAR PSR 1913 16 (PHY-7911684 A01)*; 24 MONTHS $18,600

NEW MEXICO

UNIVERSITY OF NEW MEXICO

CHANDLER, COLSTON, AND GIBSON, A G; *NONRELATIVISTIC MULTICHANNEL QUANTUM SCATTERING THEORY (PHY-8103062)*; 24 MONTHS $59,000

NEW YORK

AMERICAN INSTITUTE OF PHYSICS

KOCH, H W, AND SCOTT, JOHN T; *PUBLICATION OF CHINESE PHYSICS (PHY-8021231 A01)*; 16 MONTHS $104,000

BROOKHAVEN NATIONAL LABORATORY

YUAN, LUKE C; *INVESTIGATION OF TRANSITION RADIATION DETECTORS AND THEIR APPLICATIONS (PHY-7916503 A01*);* 12 MONTHS $20,137

BROOKLYN COLLEGE

SHAKIN, CARL M; *THEORETICAL NUCLEAR PHYSICS (PHY-8004474 A01);* 12 MONTHS $56,500

CITY COLLEGE

SAKITA, BUNJI, MOHAPATRA, RABINDRA N, AND KAKU, MICHIO; *PROBLEMS IN STRONG AND WEAK INTERACTIONS (PHY-7824888 A02);* 24 MONTHS $253,000

LINDENBAUM, SEYMOUR J; *RESONANCES UTILIZING MULTIPARTICLE SPECTROMETER (PHY-8009788 A01);* 12 MONTHS $64,991

LUBELL, MICHAEL S; *SPIN DEPENDENCE STUDIES IN ELECTRON-ATOM COLLISIONS (PHY-8020757);* 12 MONTHS $104,705

COLUMBIA UNIVERSITY

BALTAY, CHARLES, LEE, WONYONG, AND FRANZINI, PAOLO; *HIGH ENERGY PHYSICS RESEARCH (PHY-7920395 A01);* 6 MONTHS $1,250,000

BALTAY, CHARLES, FRANZINI, PAOLO, AND LEE, WONYONG; *HIGH ENERGY PHYSICS RESEARCH (PHY-7920395 A02);* $297,000

SACHS, ALLAN M; *PRECISION MEASUREMENT OF VACUUM POLARIZATION IN MUONIC HELIUM TRANSITIONS (PHY-7924605 A01);* 12 MONTHS $165,000

SPIEGEL, EDWARD A, AND RUDERMAN, MALVIN A; *ENERGETIC AND HYDROMAGNETIC PROCESSES IN ROTATING COSMIC BODIES (PHY-8023721);* 12 MONTHS $122,420

WU, C S, GROVES, JOEL L, AND DUGAN, GERALD; *LOW AND MEDIUM ENERGY PHYSICS (PHY-8025317*);* 12 MONTHS $300,000

BALTAY, CHARLES, FRANZINI, PAOLO, LEE, WONYONG, WILSON, ROBERT R, AND SCIULLI, FRANK J; *HIGH ENERGY PHYSICS RESEARCH (PHY-8107116);* 5 MONTHS $1,200,000

BALTAY, CHARLES; *HIGH ENERGY PHYSICS RESEARCH (PHY-8107116 A01);* $123,471

CORNELL UNIVERSITY

MCDANIEL, BOYCE D; *OPERATIONAL SUPPORT OF THE CORNELL ELECTRON STORAGE RING FACILITY (PHY-8022200);* 12 MONTHS $7,300,000

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

YENNIE, DONALD R, AND GOTTFRIED, KURT; *THEORETICAL PARTICLE PHYSICS (PHY-7722336 A04);* 12 MONTHS $417,351

WILSON, KENNETH G; *ACQUISITION OF AN ARRAY PROCESSOR FOR SCIENTIFIC COMPUTING (DMR-7927167*);* 6 MONTHS $27,400

TEUKOLSKY, SAUL A; *BLACK-HOLE PHYSICS AND RELATIVISTIC ASTROPHYSICS (PHY-8007957 A01);* 12 MONTHS $50,100

MCDANIEL, BOYCE D; *OPERATIONAL SUPPORT OF THE CORNELL ELECTRON STORAGE RING FACILITY (PHY-8022200 A01);* $530,000

MCDANIEL, BOYCE D; *OPERATIONAL SUPPORT OF THE CORNELL ELECTRON STORAGE RING FACILITY (PHY-8022200 A02);* $58,219

OREAR, JAY; *ELASTIC SCATTERING AT HIGH ENERGIES AND HIGH MOMENTUM TRANSFER (PHY-8023452);* 12 MONTHS $57,100

INSTITUTE OF ELECTRICAL & ELECTRONIC ENGRS INC

HERZ, ERIC, AND ENGELSON, IRVING; *PUBLICATION OF ABSTRACTS AND RECORD OF THE 1981 PARTICLE ACCELERATOR CONFERENCE; WASHINGTON, D. C.; MARCH 11-13, 1981 (PHY-8101774);* 6 MONTHS $9,000

NEW YORK UNIVERSITY

BRANDT, RICHARD A, LOWENSTEIN, JOHN H, SIRLIN, ALBERTO, AND ZWANZIGER, DANIEL; *PARTICLE AND QUANTUM FIELD THEORY INVESTIGATIONS (PHY-7821503 A02);* 12 MONTHS $166,127

STROKE, H HENRY; *HIGH-RESOLUTION MEASUREMENTS, ATOMIC HYPERFINE STRUCTURE AND ISOTOPE SHIFT (PHY-7909173 A03);* 12 MONTHS $119,998

STROKE, H HENRY; *HIGH-RESOLUTION OPTICAL MEASUREMENTS, ATOMIC HYPERFINE STRUCTURE AND ISOTOPE SHIFT (PHY-7909173 A04);* 6 MONTHS $18,324

SPRUCH, LARRY, AND ROSENBERG, LEONARD; *A THEORETICAL INVESTIGATION OF ATOMIC SCATTERING PROCESSES (PHY-7910413 A02);* 12 MONTHS $35,003

CHRISTENSON, JAMES H; *ELEMENTARY PARTICLE RESEARCH USING ELECTRONIC DETECTORS (PHY-7922102 A01);* 12 MONTHS $275,000

BEDERSON, BENJAMIN; *ATOMIC INTERACTIONS WITH ELECTRONS AND FIELDS IN GROUND AND EXCITED STATES (PHY-7926286 A01);* 12 MONTHS $157,000

BROWN, HOWARD H; *A STUDY OF HOMOGENEOUS STEADY STATE PLASMAS IN RF ELECTROMAGNETIC FIELDS (PHY-8008002 A01);* 12 MONTHS $60,000

RENSSELAER POLYTECHNIC INSTITUTE

WINHOLD, E JOHN; *PHOTOPION REACTIONS IN COMPLEX NUCLEI (PHY-8006954 A01);* 12 MONTHS $100,000

STATE UNIVERSITY AT BUFFALO

GONSALVES, RICHARD J; *STUDY OF CORRECTIONS TO LEADING-ORDER QUANTUM CHROMODYNAMIC PREDICTIONS FOR HIGH ENERGY PROCESSES (PHY-8109483);* 24 MONTHS $22,634

STATE UNIVERSITY AT STONY BROOK

MCCOY, BARRY; *MODEL SYSTEMS (DMR-7908556 A02*);* 12 MONTHS $6,700

SPROUSE, GENE D, AND PAUL, PETER; *DEVELOPMENT AND CONSTRUCTION OF A SUPERCONDUCTING HEAVY-ION LINEAR ACCELERATOR (PHY-7912300 A02);* 12 MONTHS $1,084,438

PAUL, PETER, AND SPROUSE, GENE D; *DEVELOPMENT AND CONSTRUCTION OF A SUPERCONDUCTING HEAVY-ION LINEAR ACCELERATOR (PHY-7912300 A03);* $220,000

METCALF, HAROLD; *ADVANCED TECHNIQUES IN ATOMIC PHYSICS (PHY-8006068 A01);* 12 MONTHS $96,182

LEE, LINWOOD L, BRAUN-MUNZINGER, PETER, FOSSAN, DAVID B, MCGRATH, ROBERT L, AND PAUL, PETER; *OPERATION OF NUCLEAR STRUCTURE LABORATORY (PHY-8007500);* 12 MONTHS $635,000

LEE, LINWOOD L, BRAUN-MUNZINGER, PETER, FOSSAN, DAVID B, MCGRATH, ROBERT L, AND PAUL, PETER; *OPERATION OF NUCLEAR STRUCTURE LABORATORY (PHY-8007500 A01);* 3 MONTHS $180,000

LEE-FRANZINI, JULIET, AND MC CARTHY, ROBERT L; *EXPERIMENTAL HADRON, PHOTON AND LEPTON RESEARCH USING SPECTROMETERS (PHY-8016899 A01);* 12 MONTHS $380,000

BALAZS, NANDOR L; *THE TIME EVOLUTION OF QUANTUM SYSTEMS, WITH SPECIAL APPLICATIONS TO NUCLEAR PHYSICS (PHY-8108682);* 24 MONTHS $21,000

YANG, CHEN NING; *THEORETICAL PHYSICS (PHY-8109110);* 12 MONTHS $258,749

GOOD, MYRON L; *EXPERIMENTAL HIGH ENERGY PHYSICS (PHY-8114203);* 12 MONTHS $400,000

SYRACUSE UNIVERSITY

GOLDBERG, MARVIN, HORWITZ, NAHMIN, AND MONETI, GIANCARLO; *EXPERIMENTAL ELEMENTARY PARTICLE PHYSICS (PHY-7927139 A01);* 12 MONTHS $303,000

ASHTEKAR, ABHAY; *QUANTUM GENERAL RELATIVITY (PHY-8008155 A01);* 12 MONTHS $36,471

KALOGEROPOULOS , T E; *EXPERIMENTAL ELEMENTARY PARTICLE PHYSICS (PHY-8105108);* 12 MONTHS $150,000

UNIVERSITY OF ROCHESTER

MANDEL, LEONARD; *COHERENCE EFFECTS IN QUANTUM OPTICS (PHY-7906349 A02);* 12 MONTHS $75,000

THORNDIKE, EDWARD H, AND LOBKOWICZ, FREDERICK; *ELECTROMAGNETIC INTERACTIONS OF HADRONS (PHY-7922078 A01);* 12 MONTHS $283,522

GOVE, HARRY E; *OPERATION OF THE NUCLEAR STRUCTURE RESEARCH LABORATORY (PHY-7923507 A01);* 12 MONTHS $1,050,000

DOUGLASS, DAVID H, AND JOHNSON, WARREN W; *EXPERIMENTAL STUDIES OF GRAVITATION (PHY-8008896 A01);* 12 MONTHS $275,000

NORTH CAROLINA

DUKE UNIVERSITY

ROBINSON, HUGH G; *HIGH RESOLUTION RF SPECTROSCOPY OF ATOMS AND IONS (PHY-8013737 A01);* 12 MONTHS $55,000

BIEDENHARN, L C; *THEORETICAL PHYSICS (PHY-8105333);* 24 MONTHS $41,500

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

RISLEY, JOHN S; *FUNDAMENTAL STUDIES IN ATOMIC COLLISIONS (PHY-8009198 A01);* 12 MONTHS $61,300

ARMSTRONG, CARTER M; *INVESTIGATION OF THE STABILITY OF A NONNEUTRAL PLASMA COLUMN (PHY-8009678 A02);* 12 MONTHS $38,592

MOWAT, J RICHARD; *INNER-SHELL PROCESSES IN MULTIPLY IONIZED ATOMS (PHY-8018673);* 12 MONTHS $40,020

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

YORK, JAMES W; *FUNDAMENTAL PROBLEMS AND NEW APPLICATIONS OF GENERAL RELATIVITY (PHY-8011298 A01);* 12 MONTHS $45,454

DEPRISTO, ANDREW E, AND BAER, TOMAS; *STATE-TO-STATE CHARGE TRANSFER CROSS SECTIONS (PHY-8106958);* 12 MONTHS $70,000

NG, YEE J; *TWENTIETH ANNUAL EASTERN THEORETICAL PHYSICS CONFERENCE; UNIVERSITY OF NORTH CAROLINA CHAPEL HILL; OCTOBER 2-3, 81 (PHY-8111906);* 6 MONTHS $6,000

OHIO

CASE WESTERN RESERVE UNIVERSITY

KOWALSKI, KENNETH L; *THEORETICAL STUDIES OF NUCLEAR REACTIONS AND SCATTERING (PHY-7826595 A03);* 12 MONTHS $93,500

KOWALSKI, KENNETH L; *THEORETICAL STUDIES OF NUCLEAR REACTIONS AND SCATTERING (PHY-7826595 A04);* $5,000

ROBINSON, DONALD K, AND FICKINGER, WILLIAM J; *EXPERIMENTAL HIGH ENERGY PHYSICS (PHY-8020418);* 12 MONTHS $170,000

KENT STATE UNIVERSITY

TANDY, PETER C; *THEORY OF NUCLEAR REACTION MECHANISMS (PHY-7907511 A02);* 24 MONTHS $40,500

MADEY, RICHARD; *NEUTRONS FROM INTERACTIONS OF MEDIUM-ENERGY PARTICLES WITH NUCLEI (PHY-7907790 A03);* 12 MONTHS $90,000

OBERLIN COLLEGE

HILBORN, ROBERT C; *COLLISIONAL AND HIGH-IRRADIANCE EFFECTS IN NEAR-RESONANT LASER LIGHT SCATTERING FROM ATOMS (PHY-8016501);* 12 MONTHS $52,831

OHIO STATE UNIVERSITY

BOYD, RICHARD N; *A PROGRAM OF RESEARCH USING LOW AND MEDIUM ENERGY NUCLEAR PHYSICS FACILITIES (PHY-7827410 A02)*; 12 MONTHS $94,000

HAUSMAN, H J, DONOGHUE, TIMOTHY R, AND BLATT, S L; *NUCLEAR PHYSICS RESEARCH AT LOW AND INTERMEDIATE ENERGIES (PHY-7909157 A02)*; 12 MONTHS $145,000

BOYD, RICHARD N; *EQUIPMENT FOR NUCLEAR ASTROPHYSICS MEASUREMENTS (PHY-8103513)*; 12 MONTHS $35,100

CLARK, BUNNY C; *RELATIVISTIC OPTICAL MODEL AT INTERMEDIATE ENERGIES (PHY-8107397)*; 24 MONTHS $23,500

OHIO UNIVERSITY

RAPAPORT, JACOBO; *THE PROTON-NEUTRON CHARGE EXCHANGE REACTION AT INTERMEDIATE ENERGIES (PHY-7920517 A01)*; 12 MONTHS $30,401

RAPAPORT, JACOBO, AND FINLAY, ROGER W; *ISOSPIN AND GIANT RESONANCE EFFECTS IN NEUTRON SCATTERING AND NEUTRON-INDUCED CHARGED-PARTICLE REACTIONS (PHY-8108456)*; 12 MONTHS $100,000

UNIVERSITY OF CINCINNATI

MEADOWS, BRIAN T, AND ENDORF, ROBERT J; *HIGH ENERGY EXPERIMENTS AT BROOKHAVEN AND FERMILAB (PHY-7905953 A03)*; 12 MONTHS $41,000

UNIVERSITY OF TOLEDO

SCHECTMAN, RICHARD M; *INVESTIGATION OF THE ION-FOIL INTERACTION (PHY-8005102 A01)*; $9,000

SCHECTMAN, RICHARD M; *INVESTIGATION OF THE ION-FOIL INTERACTION (PHY-8005102 A02)*; 12 MONTHS $18,000

TAI, CHEN-YU; *LEVEL CROSSING AND TRANSIENT EFFECTS IN RESONANT HARMONIC GENERATION IN I2 (ECS-8109546*)*; 12 MONTHS $23,000

OREGON

OREGON STATE UNIVERSITY

SWENSON, L W; *COLLABORATIVE RESEARCH ON NUCLEAR PHYSICS AT INTERMEDIATE ENERGIES (PHY-7926303 A01)*; 12 MONTHS $70,580

LANDAU, RUBIN H; *THEORETICAL STUDIES OF THE INTERACTIONS OF MESONS, NUCLEONS, AND RELATIVISTIC HEAVY IONS WITH NUCLEI (PHY-8107107)*; 24 MONTHS $28,500

UNIVERSITY OF OREGON - EUGENE

MC DANIELS, DAVID K; *COLLABORATIVE RESEARCH ON NUCLEAR PHYSICS AT INTERMEDIATE ENERGIES (PHY-7923656 A01)*; 12 MONTHS $55,459

LEFEVRE, HARLAN W; *DEVELOPMENT OF NUCLEAR TECHNIQUES AND INSTRUMENTS - PLASMA LENS, ION MICROPROBE, ION INDUCED ACOUSTIC WAVES, FAST NEUTRON TOMOGRAPHY (PHY-8100214*)*; 12 MONTHS $3,225

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

SCHUMACHER, ROBERT T; *AUTONOMOUS OSCILLATIONS IN MUSICAL SOUNDS (PHY-8007431 A01)*; 12 MONTHS $21,414

KISSLINGER, LEONARD S, AND SORENSEN, RAYMOND A; *THEORETICAL NUCLEAR PHYSICS (PHY-8108380)*; 24 MONTHS $284,000

DREXEL UNIVERSITY

LIM, TECK KAH; *THE FEW-BODY PROBLEM IN MOLECULAR PHYSICS (PHY-7819375 A02)*; 24 MONTHS $16,000

FENG, D H; *BOSON STATES IN NUCLEI AND NUCLEON TRANSFER REACTIONS (PHY-8102977)*; 24 MONTHS $31,000

HAVERFORD COLLEGE

PARTRIDGE, R B; *DETAILED INVESTIGATION OF THE COSMIC MICROWAVE BACKGROUND-IMPLICATIONS FOR COSMOLOGY (AST-8007370*)*; 12 MONTHS $22,000

PENNSYLVANIA STATE UNIVERSITY

GROTCH, HOWARD; *THEORETICAL STUDIES OF COMPOSITE SYSTEMS IN QUANTUM ELECTRODYNAMICS (PHY-8019768)*; 24 MONTHS $34,644

UNIVERSITY OF PENNSYLVANIA

MIDDLETON, ROY; *NUCLEAR RESEARCH WITH TANDEM ACCELERATOR (PHY-7923019 A01)*; 12 MONTHS $1,018,200

MIDDLETON, ROY; *NUCLEAR RESEARCH WITH TANDEM ACCELERATOR (PHY-7923019 A02)*; $30,843

UNIVERSITY OF PITTSBURGH

PRATT, RICHARD H; *THEORY OF QUANTUM ELECTRODYNAMIC PROCESSES IN THE FIELD OF AN ATOM (PHY-7826491 A02)*; 12 MONTHS $74,000

BAYFIELD, JAMES E; *ATOMIC PROCESSES IN STRONG ELECTROMAGNETIC FIELDS (PHY-7909031 A02)*; 12 MONTHS $95,000

VINCENT, C M, AUSTERN, NORMAN, AND TABAKIN, FRANK; *THEORETICAL STUDIES OF NUCLEAR STRUCTURE AND NUCLEAR REACTIONS (PHY-7920762 A01)*; 12 MONTHS $135,000

COHEN, BERNARD L, DAEHNICK, WILFRIED W, SALADIN, JURG X, MC GRUER, JAMES N, AND MAHER, JAMES V; *NUCLEAR STRUCTURE, NUCLEAR REACTIONS, AND APPLICATIONS OF NUCLEAR SCIENCE (PHY-7921108 A01)*; 12 MONTHS $680,000

SALADIN, JURG X, COHEN, BERNARD L, DAEHNICK, WILFRIED W, MAHER, JAMES V, AND SAYLOR, T K; *NUCLEAR STRUCTURE, NUCLEAR REACTIONS, AND APPLICATIONS OF NUCLEAR SCIENCE (PHY-7921108 A02)*; $95,000

NEWMAN, EZRA T, AND HSIEH, S H; *YANG-MILLS THEORIES OF GRAVITATION (PHY-8010715 A01)*; 12 MONTHS $28,875

ROSKIES, RALPH Z, AND CARLITZ, ROBERT D; *INVESTIGATIONS IN ELEMENTARY PARTICLE PHYSICS (PHY-8024638)*; 10 MONTHS $78,000

BARDSLEY, J NORMAN; *THEORETICAL STUDIES OF LOW-ENERGY COLLISIONS IN ATOMIC PHYSICS (PHY-8105074)*; 24 MONTHS $57,188

SALADIN, JURG X, COHEN, BERNARD L, DAEHNICK, WILFRIED W, MAHER, JAMES V, AND SAYLOR, T K; *EQUIPMENT FOR THE EXPERIMENTAL NUCLEAR PHYSICS PROGRAM (PHY-8116798)*; 12 MONTHS $61,655

RHODE ISLAND

GORDON RESEARCH CONFERENCES

CRUICKSHANK, ALEXANDER M; *GORDON CONFERENCE ON ATOMIC PHYSICS; WOLFBORO, MASSACHUSETTS JULY 6 - 10, 1981 (PHY-8106767)*; 6 MONTHS $6,000

CRUICKSHANK, ALEXANDER M; *GORDON RESEARCH CONFERENCE ON ELEMENTARY PARTICLE INTERACTIONS; ANDOVER, NEW HAMPSHIRE; AUGUST 17-21, 1981 (PHY-8109114)*; 12 MONTHS $7,000

CRUICKSHANK, ALEXANDER M; *GORDON CONFERENCE ON NUCLEAR STRUCTURE; PLYMOUTH, NEW HAMPSHIRE; AUGUST 10-14, 1981 (PHY-8115707)*; 6 MONTHS $6,500

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

PREEDOM, BARRY M; *STUDY OF NUCLEAR PHYSICS WITH INTERMEDIATE ENERGY PROBES (PHY-8006086 A01)*; 12 MONTHS $120,000

AVIGNONE, FRANK T; *ACCURATE MEASUREMENTS OF PAIR PRODUCTION CROSS SECTIONS NEAR THRESHOLD AND EFFECTS OF NUCLEAR DEFORMATION ON ATOMIC STRUCTURE (PHY-8109038)*; 12 MONTHS $20,000

TENNESSEE

DEPARTMENT OF ENERGY-OAK RIDGE OPERATIONS OFFICE

DATZ, SHELDON; *XII INTERNATIONAL CONFERENCE ON THE PHYSICS OF ELECTRONIC AND ATOMIC COLLISIONS; JULY 15-21, 1981; GATLINBURG, TENNESSEE (PHY-8100685)*; 6 MONTHS $10,000

BALL, JAMES B; *THIRD INTERNATIONAL CONFERENCE ON ELECTROSTATIC ACCELERATOR TECHNOLOGY; OAK RIDGE, TENNESSEE; APRIL 13-16, 1981 (PHY-8110888)*; 6 MONTHS $3,500

UNIVERSITY OF TENNESSEE AT KNOXVILLE

SELLIN, IVAN A; *HIGH VELOCITY COLLISIONS OF HIGHLY IONIZED IONS WITH ATOMS AND MOLECULES (PHY-7907344 A03)*; 12 MONTHS $124,150

BREINIG, MARIANNE, AND SELLIN, IVAN A; *ATOM CAPTURE AND LOSS AT ASYMPTOTICALLY HIGH VELOCITIES (PHY-8108465)*; 12 MONTHS $65,000

VANDERBILT UNIVERSITY

PANVINI, ROBERT S; *ELEMENTARY PARTICLE PHYSICS (PHY-7923277 A02)*; 12 MONTHS $177,438

ROOS, CHARLES E, AND WEBSTER, MEDFORD S; *HIGH FIELD BUBBLE CHAMBER AND MULTIPARTICLE SPECTROMETER EXPERIMENTS (PHY-8001621 A01)*; 12 MONTHS $200,000

TEXAS

RICE UNIVERSITY

STEBBINGS, RONALD F, SMITH, K A, AND DUNNING, F B; *COLLISIONS INVOLVING ATOMS IN HIGH RYDBERG STATES (PHY-8108452)*; 12 MONTHS $129,991

STEBBINGS, RONALD F, DUNNING, F B, AND SMITH, K A; *COLLISIONS INVOLVING ATOMS IN HIGH RYDBERG STATES (PHY-8108452 A01)*; $31,000

TEXAS A & M UNIVERSITY

CHURCH, DAVID A; *ANISOTROPY IN ION COLLISION EXCITATION (PHY-7826616 A02)*; 12 MONTHS $58,912

SCHUESSLER, HANS A; *SPIN DEPENDENCE OF ION-ATOM COLLISIONS AND HYPERFINE STRUCTURE OF SIMPLE IONS (PHY-7909099 A02)*; 12 MONTHS $70,000

SIEMENS, PHILIP J, AND KO, CHE MING; *THEORETICAL NUCLEAR PHYSICS (PHY-8109019)*; 12 MONTHS $96,000

UNIV OF TEXAS AT ARLINGTON

COLEMAN, PAUL G; *POSITRON SCATTERING STUDIES EMPLOYING TIME-OF-FLIGHT SPECTROMETRY (PHY-8018475)*; 12 MONTHS $46,296

UNIV OF TEXAS AT AUSTIN

WHEELER, JOHN A, SCIAMA, DENNIS W, AND CANDELAS, PHILIP; *SPACETIME PHYSICS (PHY-7826592 A02)*; 12 MONTHS $60,000

TEITELBOIM, CLAUDIO; *CLASSICAL AND QUANTUM MECHANICS OF GENERALLY COVARIANT SYSTEMS (PHY-8011432)*; 24 MONTHS $25,104

DEWITT, BRYCE S; *RESEARCH ON THE ROLE OF GRAVITATION IN PHYSICS (PHY-8022199)*; 12 MONTHS $59,976

CANTOR, MURRAY R; *TWO SLICE PROBLEMS IN GENERAL RELATIVITY (PHY-8103320*)*; 12 MONTHS $4,777

MATZNER, RICHARD A, AND DEWITT-MORETTE , CECILE; *PROBLEMS IN RELATIVITY AND PATH INTEGRATION (PHY-8107381)*; 12 MONTHS $50,000

UNIV OF TEXAS AT DALLAS

FENYVES, ERVIN J; *DESIGN OF A SURFACE ELECTRON ARRAY OVER THE HOMESTAKE MUON AND NEUTRINO DETECTOR (PHY-8000674)*; 12 MONTHS $14,535

UTAH

UNIVERSITY OF UTAH

CASSIDAY, GEORGE L, BERGESON, HAVEN E, AND LOH, EUGENE C; *A COSMIC RAY STUDY OF ULTRA HIGH ENERGY PROCESSES (PHY-7826473 A03)*; $131,300

LOH, EUGENE C, AND GROOM, DONALD E; *LEPTONIC PROCESSES AT PEP (PHY-8006504 A01*)*; 12 MONTHS $100,000

CASSIDAY, GEORGE L, AND LOH, EUGENE C; *A COSMIC RAY OBSERVATORY FOR ULTRA-HIGH ENERGY PROCESSES (PHY-8100509)*; 12 MONTHS $499,850

KUCHAR, KAREL V, AND PRICE, RICHARD H; *QUANTUM GRAVITY AND RELATIVISTIC ASTROPHYSICS (PHY-8106909)*; 12 MONTHS $67,995

UTAH STATE UNIVERSITY

LIND, V G; *PION DEEP INELASTIC AND ABSORPTION REACTIONS IN NUCLEI (PHY-8010838 A01)*; 12 MONTHS $44,697

VIRGINIA

COLLEGE OF WILLIAM AND MARY

FUNSTEN, HERBERT O; *PION REACTIONS ON NUCLEI USING IN-BEAM GAMMA RAY SPECTROSCOPY (PHY-7815730 A02)*; $11,200

GROSS, FRANZ L; *TOPICS IN THEORETICAL PHYSICS (PHY-7908240 A01)*; 24 MONTHS $61,150

ECKHAUSE, MORTON, KANE, JOHN R, SIEGEL, ROBERT T, AND WELSH, ROBERT E; *INTERACTIONS OF MUONS, KAONS, ANTIPROTONS, AND SIGMA HYPERONS (PHY-7923802 A01)*; 12 MONTHS $250,000

PERDRISAT, CHARLES F; *NUCLEAR STUDIES WITH PROTONS AND PIONS (PHY-7927191 A01)*; 12 MONTHS $38,348

FUNSTEN, HERBERT O; *PION AND KAON REACTIONS ON NUCLEI (PHY-8109029)*; 12 MONTHS $37,786

OLD DOMINION UNIVERSITY

HAVEY, MARK D; *SPECTROSCOPY OF LI-RARE GAS MOLECULES (PHY-8107114)*; 12 MONTHS $39,000

UNIVERSITY OF VIRGINIA

KELLY, HUGH P; *MANY-BODY METHODS WITH APPLICATIONS TO ATOMS AND MOLECULES (PHY-7908241 A02)*; 12 MONTHS $58,439

THORNTON, STEPHEN T; *EXPERIMENTAL NUCLEAR PHYSICS RESEARCH (PHY-8006257 A01)*; 12 MONTHS $65,000

ZIOCK, KLAUS O; *A SEARCH FOR FRACTIONALLY CHARGED PARTICLES (PHY-8023561)*; 12 MONTHS $33,017

FISHBANE, PAUL M; *THEORETICAL STUDIES IN ELEMENTARY PARTICLE PHYSICS (PHY-8100257)*; 24 MONTHS $22,000

VIRGINIA POLYTECHNIC INSTITUTE

JENKINS, DAVID A, AND GOTOW, KAZUO; *LOW ENERGY PION AND MUON EXPERIMENTS (PHY-7828080 A02)*; 12 MONTHS $206,000

HACKMAN, ROGER H; *THEORETICAL STUDIES IN INTERMEDIATE ENERGY PHYSICS (PHY-7906375 A02)*; 12 MONTHS $9,926

MO, LUKE W; *HIGH ENERGY PHYSICS RESEARCH (PHY-8000241 A02)*; 12 MONTHS $355,312

MO, LUKE W; *HIGH ENERGY PHYSICS RESEARCH (PHY-8000241 A03)*; $30,000

FICENEC, JOHN R, AND TROWER, W P; *STUDY OF HADROPRODUCED HIGH MASS RESONANCES WITH THE FERMILAB MULTIPARTICLE SPECTROMETER (PHY-8020441)*; 12 MONTHS $100,000

WASHINGTON

UNIVERSITY OF WASHINGTON

FORTSON, NORVAL; *PARITY TESTS IN ATOMS (PHY-8009818 A01)*; 12 MONTHS $118,000

LUBATTI, HENRY J; *VISUAL TECHNIQUES IN HIGH ENERGY PHYSICS (PHY-8022207)*; 12 MONTHS $330,000

BROWN, LOWELL S; *TOPICAL SUMMER RESEARCH INSTITUTE OF THEORETICAL PHYSICS; SEATTLE, WASHINGTON; JULY 13 - AUGUST 7, 1981 (PHY-8100146)*; 12 MONTHS $5,000

GEBALLE, RONALD; *ION COLLISION STUDIES (PHY-8106083)*; 12 MONTHS $77,500

DEHMELT, HANS G, AND VAN DYCK, ROBERT S; *SINGLE ELEMENTARY PARTICLE AT REST IN SPACE (SEPARIS) (PHY-8106842)*; 12 MONTHS $133,370

WILLIAMS, R W, AND COOK, VICTOR; *ELEMENTARY PARTICLE PHYSICS USING HIGH ENERGY ACCELERATORS (PHY-8112208)*; 12 MONTHS $440,000

WILLIAMS, R W, AND COOK, VICTOR; *ELEMENTARY PARTICLE PHYSICS USING HIGH ENERGY ACCELERATORS (PHY-8112208 A01)*; $35,000

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

HIRSCHFELDER, JOSEPH O; *INTERACTION OF ELECTROMAGNETIC FIELDS WITH ATOMS AND MOLECULES (CHE-8112938*)*; 12 MONTHS $42,000

UNIVERSITY OF WISCONSIN-MILWAUKEE

PARKER, LEONARD, AND FRIEDMAN, JOHN; *RESEARCH IN GRAVITY, QUANTIZED FIELDS, AND RELATIVISTIC ASTROPHYSICS (PHY-8104461)*; 12 MONTHS $10,349

MATERIALS RESEARCH

ALABAMA

UNIVERSITY OF ALABAMA

STRALEY, JOSEPH P; *COOPERATIVE PHENOMENA IN THE ELECTRICAL CONDUCTIVITY OF COMPOSITE MATERIALS (DMR-8103099)*; 12 MONTHS $19,300

ARIZONA

ARIZONA STATE UNIVERSITY

O'KEEFFE, MICHAEL; *CRYSTAL CHEMISTRY (DMR-7809197 A03)*; $12,300

SHAW, MILTON C; *THE ROLE OF ADHESION IN THE WEAR OF REFRACTORY ABRASIVE PARTICLES (DMR-7919830 A01)*; 12 MONTHS $58,100

GLAUNSINGER, WILLIAM S, VON-DREELE, ROBERT B, MARZKE, ROBERT F, AND HANSON, ROLAND C; *STRUCTURE AND PROPERTIES OF METAL-AMMONIA COMPOUNDS (DMR-7921069 A01)*; 12 MONTHS $105,000

COWLEY, JOHN M; *SHORT RANGE ORDERING STUDIES USING SCANNING TRANSMISSION ELECTRON MICROSCOPY (DMR-7926460 A01)*; 12 MONTHS $88,000

SPENCE, JOHN C; *ATOMIC STRUCTURE OF LINE AND PLANAR DEFECTS IN SEMICONDUCTORS (DMR-8002108 A01)*; 12 MONTHS $47,900

GLAUNSINGER, WILLIAM S; *INSTRUMENTATION FOR NEW APPLICATIONS OF ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY IN SOLID STATE CHEMISTRY (DMR-8006971 A01)*; $8,800

PAGE, JOHN B, AND WALKER, CHARLES T; *EXPERIMENTAL AND THEORETICAL LIGHT SCATTERING STUDIES OF THE ELECTRON PHONON INTERACTION (DMR-8007456 A01)*; 12 MONTHS $75,300

IIJIMA, SUMIO; *ELECTRON MICROSCOPY OF ATOM CONFIGURATIONS OF SURFACES AND DEFECTS IN CRYSTALS (DMR-8015785 A01)*; 12 MONTHS $49,500

NAVROTSKY, ALEXANDRA; *SILICATE GLASSES AND MELTS: THERMOCHEMICAL STUDIES (EAR-8022223*)*; 12 MONTHS $25,000

EYRING, LEROY; *HIGH-RESOLUTION ELECTRON MICROSCOPY APPLIED TO CHEMICAL PROBLEMS: A SYMPOSIUM, NEW YORK CITY, AUGUST 24-25, 1981 (DMR-8026081)*; 6 MONTHS $5,000

NAVROTSKY, ALEXANDRA; *THERMOCHEMISTRY OF SOLIDS (DMR-8106027)*; 15 MONTHS $117,700

EYRING, LEROY, AND LIN, SHENG H; *STRUCTURE, DEFECTS, AND CHEMICAL REACTION IN THE SOLID STATE: HIGH-RESOLUTION TRANSMISSION ELECTRON MICROSCOPY AND MICROANALYSIS (DMR-8108306)*; 12 MONTHS $231,000

UNIVERSITY OF ARIZONA

STARK, ROYAL W; *PROPERTIES OF CONDUCTION ELECTRONS IN METALS (DMR-7910533 A01)*; 12 MONTHS $66,500

DEMER, LOUIS J, AND VARKER, CHARLES J; *INDUSTRY/UNIVERSITY COOPERATIVE PROGRAM (IUC) - CORRELATION OF ELECTRICALLY-ACTIVE DEFECTS IN SILICON WAFERS WITH STRUCTURAL INHOMOGENEITIES IN AS-GROWN CRYSTALS (DMR-7918023 A01*)*; 12 MONTHS $53,300

HALL, H K; *INTERMEDIATES IN VINYL POLYMERIZATIONS AND RELATED REACTIONS (DMR-8106018)*; 12 MONTHS $46,000

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

GODDARD, WILLIAM A, AND MCGILL, THOMAS C; *CHEMISORPTION AND CATALYSIS ON SOLID SURFACES USING MOLECULAR MANY-BODY TECHNIQUES (DMR-7919689 A01)*; 12 MONTHS $80,000

MERCEREAU, JAMES E; *HIGH FIELD MICROWAVE SUPERCONDUCTIVITY (39R-8008898 A01)*; 12 MONTHS $64,000

ZEWAIL, AHMED H; *LASER SPECTROSCOPY OF ORDERED AND DISORDERED SYSTEMS (DMR-8105034)*; 12 MONTHS $160,000

HOPFIELD, JOHN J; *THEORETICAL AND EXPERIMENTAL STUDIES OF BIOLOGICAL MOLECULES AND PROCESSES (DMR-8107494)*; 12 MONTHS $79,000

LINUS PAULING INST OF SCIENCE & MEDICINE

PAULING, LINUS; *THE STRUCTURE OF MOLECULES AND CRYSTALS AND THE NATURE OF THE CHEMICAL BOND (DMR-8012728 A01)*; 12 MONTHS $42,800

NAVAL POSTGRADUATE SCHOOL

PERKINS, JEFF; *MARTENSITIC TRANSFORMATIONS IN SHAPE MEMORY ALLOYS (DMR-8108107)*; 6 MONTHS $21,100

ROCKWELL INTERNATIONAL CORPORATION

PARDEE, WILLIAM J; *EXAFS ANALYSIS OF GRAIN BOUNDARY SEGREGATION (DMR-8105032)*; 12 MONTHS $66,300

SAN DIEGO STATE UNIVERSITY

SHORE, HERBERT B; *THEORETICAL STUDIES OF INHOMOGENEOUS ELECTRONIC SYSTEMS IN SOLIDS (DMR-7920813 A01)*; 12 MONTHS $29,800

SWEEDLER, ALAN R; *IRRADIATION OF SUPERCONDUCTING COMPOUNDS (DMR-8026100)*; 12 MONTHS $27,600

SAN JOSE STATE UNIVERSITY

ACRIVOS, JUANA V; *INTERCALATION AND TRANSPORT PROPERTIES OF LAYER SOLIDS (DMR-7910011 A01)*; 12 MONTHS $39,200

ACRIVOS, JUANA V; *INTERCALATION AND TRANSPORT PROPERTIES OF LAYER SOLIDS (DMR-7910011 A02)*; $20,200

SRI INTERNATIONAL

ROWCLIFFE, DAVID J, AND SINCLAIR, ROBERT; *DEFORMATION AND FRACTURE OF CEMENTED CARBIDES (DMR-8100298)*; 12 MONTHS $110,000

STANFORD UNIVERSITY

BIENENSTOCK, ARTHUR I, AND WINICK, HERMAN; *OPERATIONS AND RESEARCH AT THE STANFORD SYNCHROTRON RADIATION LABORATORY (DMR-7727439 A12)*; 12 MONTHS $5,153,000

FETTER, ALEXANDER L; *QUANTUM FLUIDS AND SOLIDS (DMR-7825258 A02)*; 12 MONTHS $57,100

PEARSON, GERALD L; *FUNDAMENTAL STUDIES OF ALUMINUM GALLIUM ARSENIDE-GALLIUM ARSENIDE HETEROJUNCTIONS FOR SOLAR ENERGY CONVERTERS (DMR-7901661 A01)*; 12 MONTHS $50,000

BIENENSTOCK, ARTHUR I; *STRUCTURAL STUDIES OF AMORPHOUS MATERIALS (DMR-7908554 A01)*; 12 MONTHS $46,000

NONE; *THE ENERGY DEPENDENCE OF PARTIAL PHOTOIONIZATION CROSS SECTIONS IN THE SOFT X-RAY REGION (DMR-7913108 A03)*; 12 MONTHS $40,000

FRANK, CURTIS W; *EXCIMER FLUORESCENCE AS A MOLECULAR PROBE OF COMPATIBILITY AND RELAXATION BEHAVIOR IN SOLID POLYMER BLENDS (DMR-7916477 A02)*; 9 MONTHS $40,000

FAYER, MICHAEL D; *EXCITED STATE DYNAMICS IN MOLECULAR SOLIDS (DMR-7920380 A01)*; 12 MONTHS $77,100

NIX, WILLIAM D; *APPLICATION OF STRESS CHANGE EXPERIMENTS TO THE STUDY OF HIGH TEMPERATURE CREEP (DMR-7923942 A01)*; 12 MONTHS $52,300

LITTLE, WILLIAM A; *ORGANIC AND ORGANO-METALLIC CONDUCTORS AND SUPERCONDUCTORS (DMR-8002437 A01)*; 12 MONTHS $84,000

FLORY, PAUL J; *MOLECULAR CONFORMATION AND SPATIAL CONFIGURATIONS OF POLYMER CHAINS (DMR-8006624 A01)*; 12 MONTHS $83,800

DONIACH, SEBASTIAN; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THEORY OF COOPERATIVE PHENOMENA IN SUPERFLUID SYSTEMS OF REDUCED DIMENSIONALITY (DMR-8007934 A01*)*; 12 MONTHS $16,100

BROWN, GORDON E; *STRUCTURAL STUDIES OF ALUMINOSILICATE MELTS AND GLASSES (EAR-8016911*)*; 12 MONTHS $25,000

GEBALLE, THEODORE H; *MATERIALS RESEARCH LABORATORY PROGRAM (DMR-8020248)*; 12 MONTHS $1,870,000

GEBALLE, THEODORE H; *MATERIALS RESEARCH LABORATORY PROGRAM (DMR-8020248 A01)*; $130,000

HARRISON, WALTER A; *PSEUDOPOTENTIAL METHODS IN PHYSICS (DMR-8022365)*; 12 MONTHS $58,800

EVERITT, CHARLES W, AND CABRERA, BLAS; *PRECISE DETERMINATIONS OF H/M IN ROTATING SUPERCONDUCTING RINGS (DMR-8026007*)*; 12 MONTHS $43,000

BEASLEY, MALCOLM R; *TWO-DIMENSIONAL SUPERCONDUCTIVITY AND LAYERED SUPERCONDUCTING STRUCTURES (DMR-8108583)*; 12 MONTHS $67,000

FRANK, CURTIS W; *ACQUISITION OF PULSED NANOSECOND FLUOROMETER SYSTEM (DMR-8112891)*; 18 MONTHS $45,000

UNIVERSITY OF CALIFORNIA, BERKELEY

KNIGHT, WALTER D; *SMALL SOLID PARTICLES IN BEAMS (DMR-7819629 A02)*; 12 MONTHS $78,000

SHEN, Y R; *LINEAR AND NONLINEAR OPTICAL EFFECTS IN LIQUID CRYSTALS (DMR-7818826 A02)*; 12 MONTHS $33,200

COHEN, MARVIN L, AND KITTEL, CHARLES; *THEORETICAL SOLID STATE PHYSICS (DMR-7822465 A02)*; 12 MONTHS $125,000

YU, PETER Y; *STUDY OF INTRINSIC AND EXTRINSIC PROPERTIES OF SEMICONDUCTORS BY RESONANT RAMAN AND BRILLOUIN SPECTROSCOPIES (DMR-7919463 A01)*; 12 MONTHS $54,400

DE FONTAINE, DIDIER; *CLUSTERING AND ORDERING INSTABILITIES IN MULTICOMPONENT SYSTEMS (DMR-7920405 A02)*; 12 MONTHS $100,900

PACKARD, RICHARD E; *ULTRALOW TEMPERATURE PHYSICS (DMR-7925098 A01)*; 12 MONTHS $95,000

HAHN, ERWIN L; *COHERENT OPTICAL PHENOMENA AND SOLID STATE SPIN RESONANCE (DMR-8018811)*; 12 MONTHS $108,000

THOMAS, GARETH; *HIGH RESOLUTION ELECTRON MICROSCOPY OF NITROGEN CERAMICS FUNDAMENTAL STUDIES (DMR-8023461)*; 12 MONTHS $79,000

FALICOV, LEOPOLD M; *THEORETICAL RESEARCH ON THE ELECTRONIC PROPERTIES OF SOLIDS (DMR-8106494)*; 6 MONTHS $35,200

LYON, DAVID N, AND PHILLIPS, NORMAN E; *ACQUISITION OF A HELIUM GAS RECOVERY SYSTEM (DMR-8110506)*; 12 MONTHS $47,400

UNIVERSITY OF CALIFORNIA, DAVIS

MUKHERJEE, AMIYA K; *MECHANICAL AND MICROSTRUCTURAL ASPECTS IN SUPERPLASTICITY AND CREEP (DMR-7727724 A03)*; 12 MONTHS $77,600

MUNIR, ZUHAIR; *TRANSIENT EVAPORATION OF IONIC CRYSTALS (DMR-7909020 A02)*; 11 MONTHS $42,400

SHACKELFORD, JAMES F; *THE GAS ATOM AS A STRUCTURAL PROBE FOR AMORPHOUS SOLIDS (DMR-8100235)*; 12 MONTHS $33,000

UNIVERSITY OF CALIFORNIA, IRVINE

WALLIS, RICHARD F, AND MARADUDIN, ALEXEI A; *THEORETICAL INVESTIGATIONS OF SURFACE EFFECTS IN SOLIDS AND THE PROPERTIES OF SEMICONDUCTORS (DMR-7809430 A02)*; 12 MONTHS $58,000

LAWRENCE, JON M; *SCALING BEHAVIOR NEAR VALENCE INSTABILITIES (DMR-7906578 A02)*; 12 MONTHS $33,000

RUTLEDGE, JAMES E; *THE LOW TEMPERATURE THERMAL PROPERTIES OF DISORDERED GERMANIUM AND SILICON FILMS (DMR-8008519 A01)*; 12 MONTHS $38,000

MOHAMED, FARGHALLI A; *CREEP BEHAVIOR UNDER VERY LOW STRESSES (DMR-8009[illegible] A01)*; 12 MONTHS $52,200

UNIVERSITY OF CALIFORNIA, LOS ANGELES

HOLSTEIN, THEODORE D, ORBACH, RAYMOND L, AND PINCUS, PHILIP A; *SOME THEORETICAL STUDIES OF THE PROPERTIES OF CONDENSED MATTER (DMR-7810313 A03)*; 12 MONTHS $144,000

ORBACH, RAYMOND L; *AN EXPERIMENTAL STUDY OF SPIN GLASSES AND DYNAMICS OF SUPERCONDUCTORS (DMR-7827129 A03)*; 12 MONTHS $104,000

CHAIKIN, PAUL M; *EXPERIMENTAL STUDIES OF QUASI ONE-DIMENSIONAL CRYSTALS (DMR-7908540 A02)*; 12 MONTHS $61,000

WAGNER, C N; *THE STRUCTURE OF LIQUID AND AMORPHOUS METALLIC ALLOYS AND THE STRUCTURAL RELAXATION OF METALLIC GLASSES (DMR-8007939 A01)*; 12 MONTHS $75,000

ARDELL, ALAN J; *ACQUISITION OF A SCANNING ELECTRON MICROSCOPE (DMR-8012791)*; 12 MONTHS $75,000

ORBACH, RAYMOND L, AND RUDNICK, ISADORE; *SIXTEENTH INTERNATIONAL CONFERENCE ON LOW TEMPERATURE PHYSICS; AUGUST 19-26, 1981; LOS ANGELES, CALIFORNIA (DMR-8014971 A01)*; $19,400

NICOL, MALCOLM F; *STRUCTURES AND DYNAMICS OF SOLIDS UNDER HIGH PRESSURES AND OTHER EXTREME CONDITIONS (DMR-8025620)*; 12 MONTHS $69,600

MC TAGUE, JOHN P; *INTERNATIONAL DISCUSSION MEETING ON COMPUTER SIMULATION STUDIES OF TWO DIMENSIONAL PHASE TRANSITIONS; DECEMBER 11-13, 1980; IN LONG ISLAND, NEW YORK (CHE-8025765*)*; 12 MONTHS $5,000

WILLIAMS, GARY A; *TWO-DIMENSIONAL TRANSITIONS AT THE SURFACE OF LIQUID HELIUM (DMR-8100918)*; 12 MONTHS $64,000

CLARK, W G; *STATIC AND DYNAMIC MAGNETIC PROPERTIES OF UNIFORM AND DISORDERED QUASI ONE-DIMENSIONAL CONDUCTORS (DMR-8103065)*; 12 MONTHS $94,200

GRUNER, GEORGE, AND CLARK, W G; *STATIC AND DYNAMIC MAGNETIC & ELECTRICAL TRANSPORT PROPERTIES OF UNIFORM AND DISORDERED QUASI ONE-DIMENSIONAL CONDUCTORS (DMR-8103085 A01*)*; $35,600

ARDELL, ALAN J; *DISLOCATION ANNIHILATION AND HIGH TEMPERATURE MECHANICAL BEHAVIOR (DMR-8111133)*; 12 MONTHS $65,000

UNIVERSITY OF CALIFORNIA, RIVERSIDE

MACLAUGHLIN, DOUGLAS E; *NUCLEAR MAGNETIC RESONANCE STUDIES OF MIXED-VALENT AND SUPERCONDUCTING RARE-EARTH COMPOUNDS (DMR-7810301 A02)*; 12 MONTHS $63,000

POLLAK, MICHAEL; *TRANSPORT AND ELECTRONIC PROPERTIES OF DISORDERED SOLIDS (DMR-7821959 A03)*; 12 MONTHS $57,700

UNIVERSITY OF CALIFORNIA, SAN DIEGO

OESTERREICHER, HANS; *GIANT INTRINSIC MAGNETIC HARDNESS (DMR-7920268 A01)*; 12 MONTHS $44,000

SUHL, HARRY; *REACTION KINETICS OVER SURFACES OF SOLIDS (DMR-7922236 A01)*; 12 MONTHS $71,000

MA, SHANGKENG; *STATISTICAL PHYSICS (DMR-8002129 A01)*; 12 MONTHS $46,800

SCHULTZ, SHELDON, AND FEHER, GEORGE; *EXPERIMENTAL SOLID STATE RESEARCH (DMR-8007969*)*; 11 MONTHS $174,000

WOO, CHIA-WEI; *MANY-BODY THEORY AND STATISTICAL MECHANICS OF CONDENSED SYSTEMS (DMR-8008816 A01)*; 14 MONTHS $80,000

FISK, ZACHARY, AND MAPLE, M BRIAN; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: CORRELATIONS BETWEEN SUPERCONDUCTIVITY AND MAGNETISM THROUGH NEW TERNARY COMPOUNDS (DMR-8017783*)*; 12 MONTHS $84,000

SHAM, LU JEU; *THEORY OF ELECTRONS AND PHONONS AT SOLID INTERFACES (DMR-8018440)*; 12 MONTHS $65,000

GOODKIND, JOHN M; *MEASUREMENTS OF THE ORDERED PHASES OF SOLID HELIUM-3 (DMR-8022590)*; 12 MONTHS $70,000

LUO, HUEY-LIN; *SUPERCONDUCTING PROPERTIES OF TERNARY MOLYBDENUM SULFIDES (DMR-8108431)*; 12 MONTHS $62,000

MILLER, DAVID R, AND WEARE, JOHN H; *MOLECULAR BEAM STUDIES OF SURFACE STRUCTURE, SURFACE PHONON EXCITATIONS AND THE DYNAMICS OF GAS-SURFACE INTERACTIONS (DMR-8108425)*; 8 MONTHS $54,000

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

KOHN, WALTER, SUGAR, ROBERT L, SAWYER, RAYMOND F, SCALAPINO, DOUGLAS J, AND HARTLE, JAMES B; *INSTITUTE FOR THEORETICAL PHYSICS (PHY-7727084 A02*)*; 12 MONTHS $300,000

CANNELL, DAVID S; *EXPERIMENTAL STUDIES OF CRITICAL SYSTEMS (DMR-7910030 A02)*; 12 MONTHS $62,000

AHLERS, GUENTHER; *CRITICAL PHENOMENA NEAR THE SUPERFLUID TRANSITION OF HELIUM-4 (DMR-7923289 A01)*; 12 MONTHS $107,100

AHLERS, GUENTHER; *CRITICAL PHENOMENA NEAR THE SUPERFLUID TRANSITION OF HELIUM-4 (DMR-7923289 A02)*; $26,400

HANSMA, PAUL K; *ELECTRON TUNNELING STUDIES OF SOLID SURFACES AND INTERFACES (DMR-7925430 A01)*; 12 MONTHS $65,000

SCALAPINO, DOUGLAS J; *MANY-BODY CONDENSED MATTER (DMR-8001492 A01)*; 4 MONTHS $15,500

KENNEDY, JOHN H; *SOLID STATE ELECTROCHEMISTRY (DMR-8002676 A01)*; 12 MONTHS $52,000

SCHRIEFFER, J ROBERT; *THEORETICAL RESEARCH IN SOLID STATE PHYSICS (DMR-8007432 A01)*; 9 MONTHS $60,000

HONE, DANIEL W; *CONDENSED MATTER THEORY (DMR-8008004 A01)*; 12 MONTHS $43,000

WALKER, WILLIAM C; *CONDENSED MATTER SPECTROSCOPY (DMR-8015805 A01)*; 12 MONTHS $48,900

JACCARINO, VINCENT; *RESONANCE AND RELATED STUDIES IN CONDENSED MAGNETIC SYSTEMS (DMR-8017582)*; 12 MONTHS $154,000

KOHN, WALTER; *SUMMER WORKSHOP ON NONEQUILIBRIUM PHENOMENA; JUNE 22 - JULY 17, 1981; SANTA BARBARA, CALIFORNIA (DMR-8102931)*; 6 MONTHS $6,800

MILSTEIN, FREDERICK; *THEORETICAL ELASTIC BEHAVIOR OF CRYSTALS AT LARGE STRAINS (DMR-8106022)*; 12 MONTHS $44,100

KOHN, WALTER; *THEORY OF SOLIDS (DMR-8114556)*; 4 MONTHS $20,500

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

BRIDGES, FRANK G; *STUDIES IN CONDENSED MATTER: PARAELECTRICITY AND THE MOBILITY OF ELECTRONS ON THE SURFACE OF LIQUID HELIUM (DMR-7819761 A02)*; 10 MONTHS $58,000

NAUENBERG, MICHAEL, BROWER, RICHARD C, PRIMACK, JOEL K, AND RUDNICK, JOSEPH; *THEORY OF PARTICLE PHYSICS AND PHASE TRANSITIONS (PHY-7822253 A03*)*; 12 MONTHS $66,000

UNIVERSITY OF SOUTHERN CALIFORNIA

BOZLER, HANS M; *MAGNETIC TEXTURES AND SURFACE EFFECTS IN LIQUID 3HE AT ULTRALOW TEMPERATURES (DMR-7900830 A02)*; 12 MONTHS $73,000

BOZLER, HANS M; *MAGNETIC TEXTURES AND SURFACE EFFECTS IN LIQUID 3HE AT ULTRALOW TEMPERATURES (DMR-7900830 A03)*; $6,000

TRULLINGER, STEVEN E; *THEORETICAL STUDY OF SOLITON PHENOMENA IN CONDENSED MATTER (DMR-7908920 A02)*; 12 MONTHS $50,000

MAKI, KAZUMI; *THEORETICAL STUDY OF SUPERFLUID HELIUM-3 AND OTHER CONDENSED MATTER PHYSICS (DMR-7916903 A01)*; 12 MONTHS $78,000

LANGDON, TERENCE G; *FLOW AND FRACTURE IN SUPERPLASTIC MATERIALS (DMR-7925378 A01)*; 12 MONTHS $60,000

LANGDON, TERENCE G; *ACQUISITION OF AN ELECTROMECHANICAL UNIVERSAL TESTING INSTRUMENT (DMR-8014316)*; 12 MONTHS $35,200

BOZLER, HANS M; *WORKSHOP ON NEW PROBLEMS IN ULTRALOW TEMPERATURE PHYSICS, LOS ANGELES, CALIFORNIA, AUGUST 27-31, 1981 (DMR-8018561)*; 12 MONTHS $4,000

ONG, NAI PHUAN; *NOVEL TRANSPORT PHENOMENA IN CHARGE-DENSITY-WAVE SOLIDS (DMR-8109971*)*; 12 MONTHS $66,200

XEROX CORPORATION-XEROX-PALO ALTO RESEARCH CENTER

STREET, ROBERT A; *INTERNATIONAL TOPICAL CONFERENCE OF TETRAHEDRALLY BONDED AMORPHOUS SEMICONDUCTORS; PHOENIX, ARIZONA; MARCH 12-14,1981 (DMR-8022555*)*; 6 MONTHS $4,000

COLORADO

ASPEN CENTER FOR PHYSICS

ABRAHAMS, ELIHU, CRONIN, JAMES W, ANDERSON, PHILIP W, AND CARRUTHERS, PETER A; *SUMMER WORKSHOP ON CRITICAL PROBLEMS IN PHYSICS AND ASTROPHYSICS (PHY-8107358*)*; 12 MONTHS $19,000

COLORADO STATE UNIVERSITY

HSU, DAVID K, AND LEISURE, ROBERT G; *AN ULTRASONIC STUDY OF PALLADIUM HYDRIDES AND DEUTERIDES (DMR-8013689)*; 12 MONTHS $54,800

PATTON, CARL E; *A BRILLOUIN LIGHT SCATTERING STUDY OF MAGNETIC EXCITATIONS (29R-8013727)*; 12 MONTHS $35,000

STILLE, JOHN K; *CATALYSIS BY TRANSITION METALS ATTACHED TO POLYMER SUPPORTS (DMR-8016503)*; 12 MONTHS $75,500

SPAIN, IAN L; *ACQUISITION OF X-RAY DIFFRACTION AND FLUORESCENCE SPECTROSCOPY EQUIPMENT (DMR-8019522*)*; 12 MONTHS $15,000

NATIONAL BUREAU OF STANDARDS-NATIONAL BUREAU OF STANDARDS-BOULDER

REED, RICHARD P, AND SMITH, JOHN H; *THE ECONOMIC ASPECTS OF FRACTURE IN THE U.S. ECONOMY (DMR-8021179 A01*)*; 12 MONTHS $15,000

UNIVERSITY OF COLORADO AT BOULDER

CLARK, NOEL A; *FREELY SUSPENDED LIQUID CRYSTAL FILMS (DMR-7920169 A01)*; 12 MONTHS $35,000

SCOTT, JAMES F, AND CLARK, NOEL A; *IMPROVED LASER SPECTROSCOPY FACILITIES (DMR-8016147*)*; 12 MONTHS $42,000

SCOTT, JAMES F; *LIGHT SCATTERING STUDIES OF PHASE TRANSITIONS AND SPIN-FLIP PHENOMENA (DMR-8025238)*; 12 MONTHS $58,000

GELLER, SEYMOUR; *SOLID ELECTROLYTES (DMR-8103035)*; 12 MONTHS $65,000

UNIVERSITY OF DENVER

CARPENTER, STEVE H; *ACOUSTIC EMISSION GENERATED DURING THE DEFORMATION OF CRYSTALLINE MATERIALS (DMR-8105112)*; 12 MONTHS $70,200

CONNECTICUT

UNIVERSITY OF CONNECTICUT

NOWOTNY, HANS; *PREPARATION AND PROPERTIES OF COMPLEX CARBIDES AND NITRIDES FOR ABRASIVES (DMR-7720504 A03)*; 12 MONTHS $46,400

SHAW, M T, AND JOHNSON, JULIAN F; *POLYMER-POLYMER SOLUBILITY (DMR-7818076 A02)*; 12 MONTHS $43,900

POTTER, DONALD I; *CHANGES IN SURFACE MICROSTRUCTURE OF SUPERALLOYS CAUSED BY ION IMPLANTATION (DMR-8006084 A01)*; 12 MONTHS $75,700

CLAPP, PHILIP C; *STATISTICAL MECHANICAL MODEL OF NUCLEATION AND GROWTH IN MARTENSITIC TRANSFORMATIONS (DMR-8007031 A01)*; 12 MONTHS $55,000

MORRAL, JOHN E; *GROWTH AND COARSENING OF DENDRITES IN BINARY ALLOYS (DMR-8011404 A01)*; 12 MONTHS $48,200

WEISS, ROBERT A; *NON-EQUILIBRIUM PROCESSES IN IONOMERS (DMR-8108333)*; 12 MONTHS $34,700

WESLEYAN UNIVERSITY

BEHRINGER, ROBERT P; *SUPERFLUID DENSITY AND VISCOSITY MEASUREMENTS IN LIQUID HELIUM (DMR-8100409)*; 6 MONTHS $15,000

YALE UNIVERSITY

WHEELER, ROBERT G; *SPECTROSCOPY OF ELECTRONS IN INVERTED OXIDE SEMICONDUCTOR STRUCTURES (DMR-7820071 A02)*; 12 MONTHS $45,000

HENRICH, VICTOR E; *ELECTRON SPECTROSCOPIC STUDIES OF THE ELECTRONIC PROPERTIES OF TRANSITION-METAL OXIDE SURFACES (DMR-7823963 A02)*; 12 MONTHS $49,000

MCBRIDE, J MICHAEL; *CRYSTAL CHEMISTRY OF PARAMAGNETIC ORGANIC INTERMEDIATES (DMR-7825002 A02)*; 12 MONTHS $59,300

WOLF, WERNER P; *MAGNETIC CRYSTALS WITH WEAK INTERACTIONS (DMR-7918175 A01)*; 12 MONTHS $110,000

DELAWARE

FRANKLIN INSTITUTE-BARTOL RESEARCH FOUNDATION

KEYES, PAUL H; *PHASE TRANSITIONS IN LIQUID CRYSTALS (DMR-7907361 A02)*; 16 MONTHS $32,800

UNIVERSITY OF DELAWARE

DYBOWSKI, CECIL R; *STRUCTURE AND MOTION IN SOLID POLYMERS BY NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY (DMR-8005136 A01)*; 12 MONTHS $44,900

GREENFIELD, IRWIN G, AND CHOU, TSU-WEI; *A STUDY OF SURFACE LAYER DAMAGE DUE TO INDENTATION FATIGUE (DMR-8007282 A01)*; 12 MONTHS $63,500

STREICHER, MICHAEL A; *THE RELATIONSHIP BETWEEN CORROSION OF STAINLESS ALLOYS AND ELECTROCHEMICAL MEASUREMENTS (DMR-8011981 A01*)*; 12 MONTHS $111,300

DANIELS, WILLIAM B; *RARE GASES AND OTHER SIMPLE SYSTEMS AT HIGH PRESSURES (DMR-8100660*)*; 12 MONTHS $81,700

EDINGTON, JEFF W; *MECHANISMS OF SOLID PARTICLE EROSION OF DUCTILE TARGETS (DMR-8107903)*; 15 MONTHS $78,100

COOPER, CHARLES B; *NEUTRAL SPUTTERED CLUSTERS (DMR-8108330)*; 11 MONTHS $35,600

DISTRICT OF COLUMBIA

CATHOLIC UNIVERSITY OF AMERICA

MEIJER, PAUL H; *SIXTH INTERNATIONAL CONFERENCE ON NOISE IN PHYSICAL SYSTEMS, APRIL 6-10, 1981, WASHINGTON, D.C. (DMR-8015714)*; 6 MONTHS $8,000

GEORGE WASHINGTON UNIVERSITY

ESTERLING, DONALD M; *SOLID SOLUTION STRENGTHENING AND WEAKENING OF BODY CENTERED CUBIC ALLOYS (DMR-7900902 A02)*; 12 MONTHS $69,100

GEORGETOWN UNIVERSITY

CLINTON, WILLIAM L; *THEORY OF ELECTRON STIMULATED DESORPTION ION ANGULAR DISTRIBUTIONS (DMR-8006665)*; 12 MONTHS $27,000

NATIONAL ACADEMY OF SCIENCES

SPINDEL, WILLIAM; *REVIEW OF RESEARCH NEEDS AND OPPORTUNITIES IN POLYMER SCIENCE AND ENGINEERING (DMR-7913390 A02*)*; 6 MONTHS $7,500

FLORIDA

FLORIDA STATE UNIVERSITY

MOULTON, WILLIAM G, AND MORRIS, R CARTER; *SUPERCONDUCTING AND NORMAL ELECTRICAL PROPERTIES OF ANISOTROPIC AND ION IMPLANTED MATERIALS (DMR-7821612 A03)*; 12 MONTHS $57,500

WANG, YUNG-LI; *SERIES EXPANSION METHOD FOR MAGNETIC SYSTEMS WITH SINGLE-ION ANISOTROPIES (DMR-7925369 A01)*; 12 MONTHS $35,900

MOULTON, WILLIAM G, AND MORRIS, R CARTER; *ACQUISITION OF EQUIPMENT FOR CONDENSED MATTER PHYSICS RESEARCH (DMR-8019302)*; 24 MONTHS $41,000

UNIVERSITY OF FLORIDA-ENGINEERING & INDUSTRIAL EXPERIMENT STATION

HREN, JOHN J; *ACQUISITION OF AN ANALYTICAL ELECTRON MICROSCOPE FACILITY (DMR-8012706*)*; 12 MONTHS $110,000

UNIVERSITY OF FLORIDA

SABIN, JOHN R, AND TRICKEY, SAMUEL B; *QUANTUM THEORY OF SOLIDS AND MOLECULES (DMR-7909721 A01)*; 12 MONTHS $67,000

KUMAR, PRADEEP; *THEORETICAL LOW TEMPERATURE PHYSICS (DMR-8006311 A01)*; 12 MONTHS $21,100

IHAS, GARY G; *MAGNETO-HYDRODYNAMIC TEXTURES IN SUPERFLUID HELIUM-THREE (DMR-8006929 A01)*; 12 MONTHS $41,000

HOGEN ESCH, THIEO E; *ION PAIRS AND THE STEREOCHEMISTRY OF ANIONIC VINYL POLYMERIZATION (DMR-8009358 A01)*; 12 MONTHS $62,100

BUTLER, GEORGE B; *SYNTHETIC AND MECHANISTIC STUDIES ON NOVEL POLYMERIC SYSTEMS (DMR-8009206)*; 12 MONTHS $51,600

SACKS, MICHAEL D, AND ONODA, GEORGE Y; *SINTERING OF MODEL CERAMIC POWDERS (DMR-8024320)*; 12 MONTHS $57,700

BUTLER, GEORGE B, AND HOGEN ESCH, THIEO E; *ACQUISITION OF NUCLEAR RESONANCE MAGNETIC SPECTROMETER (DMR-8106158)*; 12 MONTHS $24,000

GEORGIA

GEORGIA INSTITUTE OF TECHNOLGY MAIN CAMPUS

LUNDBERG, JOHN L, AND O'SHEA, DONALD C; *GASEOUS POLYMER SOLUTIONS (DMR-7817929 A02)*; 12 MONTHS $51,000

FORD, JOSEPH B; *CLASSICAL AND QUANTUM THEORY OF TURBULENT BEHAVIOR IN NONLINEAR SYSTEMS (DMR-7827584 A03*)*; 12 MONTHS $14,000

O'SHEA, DONALD C; *RESONANCE SPECTRA OF SYNTHETIC METALLOPORPHYRINS (DMR-7907758 A02)*; 12 MONTHS $61,300

THOMAS, EDWARD W; *COLLISION INDUCED OPTICAL AND AUGER SPECTRA OF SOLIDS (DMR-8000671 A01)*; 12 MONTHS $40,000

SAMUELS, ROBERT J; *POLYMER MECHANICS IN THE LARGE-DEFORMATION REGION (DMR-8012692)*; 12 MONTHS $52,400

UNIVERSITY OF GEORGIA

LANDAU, DAVID P; *COMPUTER SIMULATIONS OF PHASE TRANSITIONS (DMR-7926178 A01)*; 12 MONTHS $45,500

HAWAII

UNIVERSITY OF HAWAII-MANOA

CROOKER, PETER P; *THE CHOLESTERIC/BLUE PHASE SYSTEM: EXPERIMENTS ON A NEW CLASS OF PHASE TRANSITIONS (DMR-8022855)*; 24 MONTHS $82,100

ILLINOIS

NORTHERN ILLINOIS UNIVERSITY

KIMBALL, CLYDE W; *MOSSBAUER STUDIES OF TERNARY SUPERCONDUCTORS (DMR-7809773 A03)*; 12 MONTHS $57,900

HURYCH, ZDENEK; *PHOTOEMISSION AND PHOTODESORPTION STUDIES OF SOLIDS USING SYNCHROTRON RADIATION (DMR-8108302)*; 12 MONTHS $58,000

HURYCH, ZDENEK; *PHOTOEMISSION AND PHOTODESORPTION STUDIES OF SOLIDS USING SYNCHROTRON RADIATION (DMR-8108302 A01)*; $69,400

NORTHWESTERN UNIVERSITY

FREEMAN, ARTHUR J; *ELECTRONIC STRUCTURE AND PROPERTIES OF PERFECT AND DEFECTIVE SOLIDS (DMR-7723776 A03)*; 12 MONTHS $79,400

KLOTZ, IRVING M; *SYNTHETIC POLYMERS WITH CATALYTIC ACTIVITIES (DMR-7724152 A03)*; 12 MONTHS $58,200

WEERTMAN, JULIA R; *SMALL ANGLE NEUTRON SCATTERING STUDY OF THE INITIATION AND EARLY GROWTH BEHAVIOR OF GRAIN BOUNDARY VOIDS (DMR-7826026 A02)*; 12 MONTHS $35,000

SCHWARTZ, LYLE H; *STRUCTURE AND STRENGTH OF SPINODAL ALLOYS (DMR-7911107 A01)*; 12 MONTHS $59,300

WEERTMAN, JOHANNES; *INTERNAL STRESS IN CLASS I SOLID SOLUTION ALLOYS (DMR-7912136 A01)*; 12 MONTHS $49,100

JOHNSON, D LYNN; *PLASMA SINTERING OF CERAMICS (DMR-7918403 A01)*; 12 MONTHS $52,200

BRITTAIN, JOHN O, AND KANNEWURF, CARL R; *CHARACTERIZATION OF COMPOUNDS OF THE SODIUM THALLIUM STRUCTURE (DMR-7922070 A01)*; 12 MONTHS $61,000

SCHWARTZ, LYLE H; *BASIC AND APPLIED RESEARCH ON MATERIALS (DMR-7923573 A01)*; 12 MONTHS $1,765,000

SCHWARTZ, LYLE H; *BASIC AND APPLIED RESEARCH ON MATERIALS (DMR-7923573 A02)*; $35,000

COHEN, JEROME B; *LOCAL ATOMIC ARRANGEMENTS IN ALLOYS AND INTERMETALLICS (DMR-7923825 A01)*; 12 MONTHS $75,000

ELLIS, DONALD E; *DEVELOPMENT AND APPLICATION OF ONE-ELECTRON THEORY FOR TRANSITION AND HEAVY-METAL COMPOUNDS (DMR-7925379 A01)*; 12 MONTHS $50,400

CHUNG, YIP-WAH, AND FINE, MORRIS E; *INDUSTRY/ UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: SURFACE CONDITIONS ON FATIGUE CRACK INITIATION IN IRON AND STEELS (DMR-7926179 A01*)*; 12 MONTHS $45,400

SINGWI, KUNDAN S; *MICROSCOPIC THEORY OF DYNAMICAL CORRELATIONS IN ELECTRON LIQUID AND ITS APPLICATIONS (DMR-8011934 A01)*; 12 MONTHS $42,330

BRODWIN, MORRIS E, AND WHITMORE, D H; *STUDIES OF MOBILE ION BEHAVIOR IN CERAMIC ELECTROLYTES USING DYNAMICAL EXPERIMENTAL PROBES (DMR-8015803*)*; 12 MONTHS $39,000

CRIST, BUCKLEY; *LIGHT AND X-RAY SCATTERING BY POLYMER GLASSES (DMR-8016875)*; 12 MONTHS $45,200

ELLIS, DONALD E, FREEMAN, ARTHUR J, AND RATNER, MARK A; *ACQUISITION OF A MATERIALS RESEARCH MINICOMPUTER (DMR-8023693)*; 12 MONTHS $63,900

KETTERSON, JOHN B, AND HALPERIN, WILLIAM P; *ACQUISTION OF CRYOGENIC INSTRUMENTATION (DMR-8100425*)*; 12 MONTHS $27,600

WESSELS, BRUCE W; *VAPOR PHASE EPITAXIAL INDIUM PHOSPHIDE THIN FILMS (DMR-8103514)*; 12 MONTHS $54,400

MASON, THOMAS O; *ELECTRICAL STUDIES OF TRANSITION METAL OXIDE SPINELS (DMR-8104493)*; 12 MONTHS $44,600

KANNEWURF, CARL R; *ACQUISITION OF INTERACTIVE SYSTEM FOR AUTOMATED CHARGE TRANSPORT RESEARCH (DMR-8107055)*; 12 MONTHS $14,000

KETTERSON, JOHN B; *MATERIAL PROPERTIES AND PHENOMENA AT VERY LOW TEMPERATURES (DMR-8107385*)*; 12 MONTHS $96,000

HALPERIN, WILLIAM P; *ORDER PARAMETER COLLECTIVE MODES IN 3-HELIUM (DMR-8108709)*; 12 MONTHS $56,000

JOHNSON, D LYNN, AND MASON, THOMAS O; *ACQUISITION OF A PROGRAMMABLE HIGH TEMPERATURE/ATMOSPHERE FURNACE (DMR-8108813)*; 12 MONTHS $10,000

COHEN, JEROME B; *IMPROVEMENT OF X-RAY FACILITIES (DMR-8111733*)*; 12 MONTHS $78,000

MESHII, MASAHIRO; *SIMULTANEOUS IN-SITU INVESTIGATION OF DEFECT PRODUCTION BY ELECTRON MICROSCOPY AND ELECTRICAL RESISTIVITY (DMR-8114815)*; 38 MONTHS $220,000

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE

TELSCHOW, KENNETH L; *THIRD SOUND: A STUDY OF THE SUPERFLUID FILM (DMR-8106972)*; 12 MONTHS $45,000

UNIVERSITY OF CHICAGO

FREED, KARL F; *STATISTICAL MECHANICS OF POLYMER SYSTEMS (DMR-7826630 A02)*; 12 MONTHS $63,300

KADANOFF, LEO P; *RESEARCH PROGRAM IN MATERIALS SCIENCES (DMR-7924007 A02)*; 12 MONTHS $850,000

LEVI-SETTI, RICCARDO; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: DEVELOPMENT OF A NEW HIGH-RESOLUTION SCANNING ION MICROPROBE (DMR-8007978 A02*)*; 12 MONTHS $86,300

FRITZSCHE, HELLMUT; *ELECTRONIC PROPERTIES OF DISORDERED SEMICONDUCTORS (DMR-8009225 A01)*; 8 MONTHS $99,700

CREWE, ALBERT V; *APPLICATION OF ELECTRON BEAM TECHNOLOGY TO MATERIALS SCIENCE (DMR-8014176 A01)*; 12 MONTHS $166,000

BURDETT, JEREMY K; *THEORETICAL STUDIES ON THE STRUCTURES OF SOLIDS (DMR-8019741)*; 12 MONTHS $25,000

COHEN, MORREL H, KADANOFF, LEO P, LEVIN, KATHRYN, AND MAZENKO, GENE F; *THEORETICAL SOLID STATE PHYSICS (DMR-8020608)*; 12 MONTHS $220,000

NAGEL, SIDNEY R; *EXPERIMENTAL STUDIES OF DISORDERED SYSTEMS (DMR-8021256)*; 12 MONTHS $50,000

COX, D E, AND LANDER, GERARD H; *SYMPOSIUM ON NEUTRON SCATTERING AT ARGONNE NATIONAL LABORATORY, AUGUST 13-14, 1981 (DMR-8105019)*; 6 MONTHS $8,000

KLEPPA, OLE J; *HIGH TEMPERATURE CALORIMETRY OF REFRACTORY SYSTEMS (CHE-8106980*)*; 12 MONTHS $54,000

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

BAUR, WERNER H; *THE EMPIRICAL BASIS FOR COMPUTER SIMULATION OF CRYSTAL STRUCTURES (DMR-8019017)*; 12 MONTHS $35,000

DANYLUK, STEVEN S; *ACQUISITION OF AN X-RAY ENERGY DISPERSIVE ANALYZER (DMR-8020747)*; 12 MONTHS $13,000

CLAUS, HELMUT; *MAGNETIC ORDER IN ALLOYS (DMR-8101857)*; 12 MONTHS $46,000

KOUVEL, JAMES S; *MAGNETISM IN TRANSITION-METAL ALLOYS AND RARE EARTH COMPOUNDS (DMR-8111076)*; 12 MONTHS $47,000

UNIVERSITY OF ILLINOIS AT URBANA

ALTSTETTER, CARL J, BIRNBAUM, HOWARD K, AND RIGSBEE, J M; *HYDROGEN EMBRITTLEMENT IN THE IRON-NICKEL-CHROMIUM SYSTEM (DMR-7709808 A04)*; 12 MONTHS $157,700

PETHICK, C J, AND PINES, DAVID; *QUANTUM LIQUIDS (DMR-7921068 A02)*; 12 MONTHS $81,700

BAYM, GORDON A, AND WORTIS, MICHAEL; *PROPERTIES OF SOLIDS AND MANY PARTICLE SYSTEMS (DMR-7921069 A03*)*; 12 MONTHS $61,200

EHRLICH, GERT; *REACTION AND DIFFUSION ON METAL SURFACES (DMR-7925015 A02)*; 12 MONTHS $69,500

KLEIN, MILES V; *LIGHT SCATTERING STUDIES IN SEMICONDUCTORS AND DISORDERED SOLIDS (DMR-7926780 A02)*; 12 MONTHS $44,000

GINSBERG, DONALD M; *MAGNETIC IMPURITIES IN SUPERCONDUCTORS (DMR-7907771 A02)*; 12 MONTHS $50,000

BROWN, FREDERICK C; *EXCITATION OF SOLIDS BY SYNCHROTRON RADIATION (DMR-7913103 A01)*; 12 MONTHS $75,000

DLOTT, DANA D; *EXCITED STATE INTERACTIONS IN MOLECULAR CRYSTAL PHOTOCHEMISTRY (DMR-8001630 A01)*; 16 MONTHS $65,000

ANDERSON, ANSEL C; *A LOW TEMPERATURE INVESTIGATION OF AMORPHOUS MATERIALS (DMR-8006941 A01*)*; 12 MONTHS $48,000

WEISSMAN, MICHAEL B; *1/F NOISE INVESTIGATIONS IN CONDENSED MATTER SYSTEMS (DMR-8007057 A01)*; 12 MONTHS $46,000

FLYNN, COLIN P; *SYNCHROTRON RADIATION STUDIES OF IMPURITIES INTERACTING WITH METALS (DMR-8008139 A01)*; 8 MONTHS $79,300

WIRTZ, GERALD P; *DEFECT CHEMISTRY AND TRANSPORT PROPERTIES OF DEGENERATE OXIDE SEMICONDUCTORS (DMR-8008848)*; 12 MONTHS $45,600

RIGSBEE, J M; *INTERFACIAL-CONTROLLED DEFORMATION AND FRACTURE MECHANISMS IN TWO-PHASE ALLOYS (DMR-8010806)*; 12 MONTHS $44,500

GRANATO, ANDREW V; *DEFECT INTERACTIONS IN CRYSTALS (DMR-8015707 A01)*; 12 MONTHS $45,300

GAYLORD, RICHARD J, AND GEIL, PHILLIP H; *THE STRAIN-INDUCED CRYSTALLIZATION OF CROSSLINKED POLYMERS (DMR-8018171)*; 12 MONTHS $47,600

WIRTZ, GERALD P, AND BERGERON, CLIFTON G; *ACQUISITION OF THERMAL ANALYSIS FACILITY (DMR-8018240)*; 16 MONTHS $34,000

FLYNN, COLIN P; *MATERIALS SCIENCE RESEARCH (DMR-8020250)*; 12 MONTHS $1,770,000

FLYNN, COLIN P; *MATERIALS SCIENCE RESEARCH (DMR-8020250 A01)*; $90,000

MCMILLAN, WILLIAM L; *THEORY OF PHASE TRANSITIONS AND SUPERCONDUCTIVITY (DMR-8023361)*; 12 MONTHS $42,000

WOLFE, JAMES P; *INFRARED IMAGING OF ELECTRON-HOLE LIQUID AND EXCITONS IN GERMANIUM (DMR-8024000)*; 11 MONTHS $56,000

WOLFE, JAMES P; *INFRARED IMAGING OF ELECTRON-HOLE LIQUID AND EXCITONS IN GERMANIUM (DMR-8024000 A01)*; $8,100

EHRLICH, GERT; *ATOMIC EXPLORATION OF CRYSTAL GROWTH (DMR-8024061)*; 12 MONTHS $50,100

COOK, KELSEY D; *POLYMER CHARACTERIZATION BY ELECTROHYDRODYNAMIC IONIZATION MASS SPECTROMETRY (29R-8024632)*; 12 MONTHS $37,300

RISBUD, SUBHASH H; *MICROSTRUCTURAL CHARACTERIZATION OF OXYNITRIDE GLASSES AND GLASS-CERAMICS (DMR-8105070)*; 12 MONTHS $38,400

SALAMON, MYRON B; *COMPARATIVE MULTICRITICAL POINT MEASUREMENTS ON DISORDERED MATERIALS (DMR-8106143)*; 12 MONTHS $40,000

GEIL, PHILLIP H, AND CRANG, RICHARD F E; *ACQUISITION OF CRYOGENIC ULTRAMICROTOME (DMR-8106230)*; 12 MONTHS $24,000

GEIL, PHILLIP H; *POLYMER MORPHOLOGY (DMR-8108300)*; 9 MONTHS $25,300

SALAMON, MYRON B; *ACQUISITION OF A HIGH SENSITIVITY MAGNETOMETER/SUSCEPTOMETER FOR CONDENSED MATTER RESEARCH (DMR-8109031*)*; 12 MONTHS $62,800

PETUSKEY, WILLIAM T; *LIQUID SILICATE ELECTROLYTES AND THEIR INTERACTIONS WITH CERAMIC ELECTRODES (DMR-8111452)*; 12 MONTHS $48,000

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

SCHAICH, WILLIAM L; *THEORETICAL STUDY OF FUNDAMENTAL PROCESSES IN CONDENSED MATTER (DMR-7810235 A02)*; 12 MONTHS $38,500

BRON, WALTER E; *INTERNATIONAL CONFERENCE ON PHONON PHYSICS, BLOOMINGTON, INDIANA, AUGUST 31 - SEPTEMBER 3, 1981 (DMR-8006333)*; 12 MONTHS $5,000

SWIHART, JAMES C; *THEORETICAL STUDY OF FUNDAMENTAL PROCESSES AND INTERACTIONS IN METALS (DMR-8006939)*; 12 MONTHS $40,000

BRON, WALTER E; *UPGRADING OF COMPUTER CONTROL AND DATA ACQUISITION FACILITY (DMR-8011983)*; 12 MONTHS $13,200

MAHAN, GERALD D; *THEORY OF CONDENSED MATTER (DMR-8016883)*; 12 MONTHS $42,000

HAKE, RICHARD R; *EXPERIMENTAL INVESTIGATION OF SUPERCONDUCTIVITY AND MAGNETISM (DMR-8024355)*; 12 MONTHS $24,000

CHASE, LLOYD L; *LASER SPECTROSCOPY OF SOLIDS (DMR-8105005)*; 12 MONTHS $59,000

PURDUE UNIVERSITY

PROHOFSKY, EARL W; *APPLICATION OF SOFT MODE ANALYSIS TO THE LATTICE DYNAMICS OF DNA AND RNA HELICES (DMR-7820602 A02)*; 12 MONTHS $36,400

VEST, ROBERT W; *MIXED CONDUCTION IN IRON-DOPED BETA-ALUMINA (DMR-7825236 A02)*; 12 MONTHS $55,500

SATO, HIROSHI, AND KIKUCHI, RYOICHI; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: KENETICS OF PHASE TRANSITIONS (DMR-7903932 A02*)*; 12 MONTHS $34,900

GIORDANO, NICHOLAS J; *FABRICATION AND PROPERTIES OF ONE-DIMENSIONAL SYSTEMS (DMR-7906716 A02)*; 12 MONTHS $45,500

KEESOM, P H, AND HONIG, J M; *PROPERTIES OF OXIDES OF VANADIUM IN THE CRYOGENIC TEMPERATURE RANGE (DMR-7908356 A02)*; 12 MONTHS $49,000

SLADEK, RONALD J; *ULTRASONIC AND RELATED INVESTIGATIONS OF SOLIDS (DMR-7908538 A02)*; 12 MONTHS $51,000

BRAY, RALPH; *LIGHT SCATTERING STUDIES OF PHONON INTERACTIONS IN PIEZOELECTRIC SEMICONDUCTORS (DMR-7914618 A01)*; 12 MONTHS $57,000

FURDYNA, JACEK K; *SUBMILLIMETER WAVE INVESTIGATION OF SEMIMAGNETIC SEMICONDUCTORS (DMR-7923210 A01)*; 12 MONTHS $50,000

SCHUHMANN, R; *COAL GASIFICATION KINETICS IN A JET-FLUIDIZED BED (DMR-7923756 A01)*; 12 MONTHS $78,200

ANGELL, C A; *SUPERCOOLED LIQUIDS AND DISORDERED CRYSTALS BY EXPERIMENT AND SIMULATION (DMR-8007053 A01)*; 12 MONTHS $83,600

ROBINSON, WILLIAM R; *SYNTHESIS AND CHARACTERIZATION OF ANALOGUES OF CHEVREL PHASES (DMR-8009143 A01)*; 14 MONTHS $61,000

GREST, GARY S; *THEORETICAL STUDIES IN DISORDERED MATERIALS (DMR-8017758)*; 12 MONTHS $22,000

HONIG, J M; *MATERIALS RESEARCH LABORATORY (DMR-8020249)*; 12 MONTHS $1,250,000

HONIG, J M; *MATERIALS RESEARCH LABORATORY (DMR-8020249 A01)*; $70,000

REIFENBERGER, R; *A FUNDAMENTAL STUDY OF THE ELECTRONIC PROPERTIES OF SEMIMAGNETIC SEMICONDUCTORS (DMR-8022868)*; 12 MONTHS $39,000

HONIG, J M; *PROPERTIES OF TITANOMAGNETITE SOLID SOLUTIONS (DMR-8103041)*; 12 MONTHS $70,900

OVERHAUSER, ALBERT W; *THEORY OF INTERACTING FERMI SYSTEMS (DMR-8106044)*; 12 MONTHS $56,000

RAMDAS, ANANT K, AND RODRIGUEZ, S; *ELECTRONIC AND VIBRATIONAL SPECTRA OF SOLIDS (DMR-8106144)*; 12 MONTHS $80,000

COLELLA, ROBERTO; *X-RAY DIFFRACTION PHYSICS AND SOLID STATE (DMR-8108337)*; 12 MONTHS $45,000

UNIVERSITY OF NOTRE DAME

ARNOLD, GERALD B; *THEORY OF PROXIMITY EFFECT TUNNELING (DMR-8019739)*; 12 MONTHS $14,900

TOMASCH, WALTER J; *ELECTRONIC TUNNELING FROM METALS (QUASIPARTICLE INTERFERENCE) (DMR-8105007)*; 12 MONTHS $39,000

KARGOL, JAMES A; *ENVIRONMENT-ASSISTED FAILURE OF FACE-CENTERED-CUBIC IRONBASE AND NICKEL-BASE ALLOYS (DMR-8106046*)*; 12 MONTHS $181,200

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

LYNCH, DAVID W, AND OLSON, C G; *ACQUISITION OF MONOCHROMATORS FOR PHOTOELECTRON SPECTROSCOPY (DMR-8016158)*; 12 MONTHS $122,000

LYNCH, DAVID W, AND OLSON, C G; *ACQUISITION OF MONOCHROMATORS FOR PHOTOELECTRON SPECTROSCOPY (DMR-8016158 A01*)*; $40,000

HUNTER, ORVILLE; *GRAIN-SIZE DEPENDENCE OF MICROCRACK INITIATION IN TWO PHASE BRITTLE SYSTEMS (DMR-8018672)*; 18 MONTHS $49,900

KANSAS

UNIVERSITY OF KANSAS MAIN CAMPUS

UNRUH, WESLEY P; *ELASTIC LIGHT SCATTERING INVESTIGATIONS OF THE DEFECT SUBSTRUCTURE OF REFRACTORY OXIDES (DMR-7810824 A03)*; 12 MONTHS $44,100

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

SCHWARTZ, ROBERT W; *ELECTRONIC STRUCTURE, ENERGY TRANSFER AND LUMINESCENT PROPERTIES OF LANTHANIDE IONS IN SOLIDS (DMR-7811540 A01)*; 7 MONTHS $8,600

CALLAWAY, JOSEPH; *BAND THEORY OF FERROMAGNETIC METALS (DMR-7817806 A02)*; 12 MONTHS $37,700

GOODRICH, ROY G; *RADIO FREQUENCY SIZE EFFECT MEASUREMENTS IN METALS (DMR-8009826 A01)*; 12 MONTHS $32,000

TULANE UNIVERSITY

PERDEW, JOHN P; *IMPROVED DENSITY FUNCTIONALS AND THEIR APPLICATIONS TO INHOMOGENEOUS ELECTRON SYSTEMS (DMR-8016117)*; 12 MONTHS $16,000

UNIVERSITY OF NEW ORLEANS

AZZAM, R M; *AIDER: ANGLE-OF-INCIDENCE DERIVATIVE ELLIPSOMETRY AND REFLECTOMETRY (DMR-8018417*)*; 24 MONTHS $128,775

MAINE

UNIVERSITY OF MAINE, ORONO

SMITH, CHARLES W, AND SCHWARZ, KLAUS W; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: TIME AND SPACE-RESOLVED TURBULENCE IN SUPERFLUID HELIUM-4 (DMR-8005358 A01*)*; 12 MONTHS $44,700

UNERTL, WILLIAM N; *STRUCTURE, COMPOSITION AND THERMAL PROPERTIES OF SOLID SURFACES (DMR-8020840)*; 12 MONTHS $29,500

CLARK, ALTON H, AND UNERTL, WILLIAM N; *ACQUISITION OF SURFACE SPECTROSCOPY RESEARCH EQUIPMENT (DMR-8106484)*; 12 MONTHS $39,000

MARYLAND

JOHNS HOPKINS UNIVERSITY

KISTENMACHER, THOMAS J; *STRUCTURE-PHYSICAL PROPERTY RELATIONSHIPS FOR QUASI ONE-DIMENSIONAL MATERIALS (DMR-7823957 A02)*; 12 MONTHS $48,000

CHIEN, CHIA-LING; *SOLID STATE STUDIES OF AMORPHOUS MAGNETIC SOLIDS (DMR-7910536 A02)*; 12 MONTHS $42,600

WALKER, JAMES C, AND CHIEN, CHIA-LING; *SOLID STATE STUDIES USING MOSSBAUER SPECTROSCOPY AND OTHER TECHNIQUES (DMR-8008148 A01)*; 12 MONTHS $75,000

MORAN, PATRICK J; *INSTRUMENTATION FOR CORROSION AND ELECTROCHEMICAL RESEARCH (DMR-8011337)*; 12 MONTHS $4,000

COWAN, DWAINE O; *INDUSTRY - UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: SYSTEMATIC DEVELOPMENT OF NEW ORGANIC CONDUCTORS (DMR-8015318 A01*)*; 12 MONTHS $113,900

MORAN, PATRICK J, AND GREEN, ROBERT E; *ACQUISITION OF ENERGY DISPERSIVE X-RAY MICROANALYSIS SYSTEM AND BACKSCATTERED ELECTRON DETECTOR (DMR-8108342)*; 12 MONTHS $26,200

MARTIN MARIETTA CORPORATION-MARTIN MARIETTA LABORATORY

PRECHT, WALTER, AND VENABLES, JOHN D; *RELATIONSHIP BETWEEN THE MECHANICAL BEHAVIOR OF CERMETS AND PROPERTIES OF THEIR CONSTITUTENT PHASES (DMR-7708354 A03)*; 6 MONTHS $14,300

UNIVERSITY OF MARYLAND, COLLEGE PARK

PARK, ROBERT L; *COMPOSITION AND ELECTRONIC STRUCTURE OF ALLOY SURFACES (DMR-7900325 A02)*; 12 MONTHS $52,500

LYNN, JEFFREY W, AND FERRELL, RICHARD A; *NEUTRON SCATTERING IN MAGNETIC MATERIALS (DMR-7900908 A02)*; 12 MONTHS $65,500

FERRELL, RICHARD A; *DYNAMICAL SCALING IN NORMAL AND SUPERFLUID LIQUIDS (DMR-7901178 A02)*; 12 MONTHS $44,000

PRANGE, RICHARD E, AND KORENMAN, VICTOR; *CONDUCTION ELECTRONS AND MAGNETISM (DMR-7908819 A01)*; 12 MONTHS $76,000

SENGERS, JAN V, AND FERRELL, RICHARD A; *PHASE TRANSITIONS AND CRITICAL PHENOMENA (DMR-7910819 A02)*; 12 MONTHS $143,000

MATHERS, JAMES P; *THE EFFECT OF IMPURITIES ON THE SINTERING OF ALUMINUM NITRIDE (DMR-8001980 A01)*; 12 MONTHS $45,400

BAILEY, WILLIAM J; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: SYNTHESIS OF MONOMERS THAT EXPAND ON POLYMERIZATION (DMR-8016361*)*; 12 MONTHS $27,742

DREW, HOWARD D; *FAR INFRARED PROPERTIES OF CONDUCTING MATERIALS (DMR-8025617)*; 12 MONTHS $64,200

KRAMER, I R, AND ARSENAULT, R J; *DISLOCATION DISTRIBUTION IN CREEP AND RELAXATION (DMR-8108422)*; 15 MONTHS $80,000

MASSACHUSETTS

BOSTON UNIVERSITY

KIRCZENOW, GEORGE; *THEORETICAL STUDIES OF EXCITONIC SYSTEMS IN SEMICONDUCTORS (DMR-8023759)*; 12 MONTHS $12,500

KOLK, BEREND; *MOSSBAUER EFFECT STUDIES ON Y-RAY INTERFERENCE, LATTICE DYNAMICS AND HYPERFINE FIELDS (DMR-8026539)*; 12 MONTHS $30,000

ZIMMERMAN, GEORGE O, AND BROOKS, JAMES S; *INFLUENCE OF HIGH MAGNETIC FIELDS ON PROPERTIES OF 3-HELIUM AND STUDIES OF CERIUM MAGNESIUM NITRATE (DMR-8113456)*; 12 MONTHS $56,400

BRANDEIS UNIVERSITY

MEYER, ROBERT B; *STRUCTURAL STUDIES OF LIQUID CRYSTALS (DMR-7915149 A02)*; 12 MONTHS $58,000

BERKO, STEPHAN; *SOLID STATE PHYSICS STUDIES WITH POSITRONS (DMR-7926035 A01*)*; $14,000

BERKO, STEPHAN; *SOLID STATE PHYSICS STUDIES WITH POSITRONS (DMR-7926035 A02*)*; 12 MONTHS $99,200

YOUNG, CHARLES; *LASER LIGHT SCATTERING STUDIES OF FREELY SUSPENDED SMECTIC LIQUID CRYSTAL FILMS (DMR-8006491 A01)*; 12 MONTHS $27,500

SCHWARTZ, LAWRENCE M; *ELECTRONIC PROPERTIES OF DISORDERED METALS (DMR-8023440)*; 12 MONTHS $30,000

BLACK, JAMES L; *GLASSY AND COOPERATIVE PHENOMENA IN AMORPHOUS METALS AND HYDROGEN-BONDED CRYSTALS (DMR-8108356)*; 12 MONTHS $2,000

CANTER, KARL F; *POSITRON ANNIHILATION MEASUREMENTS IN LOW TEMPERATURE HELIUM (DMR-8109509)*; 12 MONTHS $34,000

CLARK UNIVERSITY

HOHENEMSER, CHRISTOPH, AND COLLINS, GARY; *HYPERFINE INTERACTION STUDIES IN METALS, WITH APPLICATION TO CRITICAL PHENOMENA (DMR-8002443 A01)*; 10 MONTHS $59,100

JONES, ALAN A, BENDLER, JOHN T, AND YEE, ALBERT F; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: NUCLEAR SPIN RELAXATION AND LOCAL MOTIONS IN SYNTHETIC POLYMERS (DMR-8106239)*; 6 MONTHS $30,900

COLLINS, GARY; *LATTICE DEFECTS IN METALS STUDIED BY HYPERFINE INTERACTIONS (DMR-8108307)*; 12 MONTHS $39,800

JONES, ALAN A; *ACQUISITION OF A SUPERCONDUCTING NUCLEAR MAGNETIC RESONANCE SPECTROMETER (DMR-8108497*)*; 18 MONTHS $50,000

HARVARD UNIVERSITY

HALPERIN, BERTRAND H, EHRENREICH, HENRY, NELSON, DAVID R, AND MARTIN, PAUL C; *THEORETICAL PROBLEMS IN CONDENSED MATTER AND STATISTICAL PHYSICS (DMR-7710810 A04)*; 4 MONTHS $93,858

TINKHAM, MICHAEL; *FUNDAMENTAL PROPERTIES OF SUPERCONDUCTORS (DMR-7904155 A03)*; 12 MONTHS $72,000

TINKHAM, MICHAEL, AND TURNBULL, DAVID; *PREPARATION AND CHARACTERIZATION OF IMPROVED SUPERCONDUCTING MATERIALS (DMR-7905011 A03*)*; 12 MONTHS $80,000

POUND, ROBERT V; *NUCLEAR RESONANCE (DMR-7907083 A02)*; 12 MONTHS $84,100

PERSHAN, PETER S; *PHYSICAL PROPERTIES OF LIQUID CRYSTALS AND ORDERED FLUIDS (DMR-79-9479 A01)*; 12 MONTHS $105,000

TURNBULL, DAVID; *EFFECTS OF ' FAST ' DIFFUSING IMPURITIES ON PROPERTIES OF METALLIC SOLUTIONS (DMR-8012933 A01*)*; 12 MONTHS $45,000

PAUL, WILLIAM; *MATERIALS RESEARCH LABORATORY (DMR-8020847)*; 12 MONTHS $775,000

PAUL, WILLIAM; *MATERIALS RESEARCH LABORATORY (DMR-8020847 A01)*; $75,000

PAUL, WILLIAM; *BASIC PROPERTIES OF AMORPHOUS SEMICONDUCTORS (DMR-8108327)*; 12 MONTHS $110,000

MANLABS INC

KAUFMAN, LAWRENCE; *CALCULATION OF TERNARY PHASE DIAGRAMS BY COMPUTER METHODS (DMR-7911916 A02)*; 12 MONTHS $110,800

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LAX, BENJAMIN; *STAFFING, MANAGEMENT AND OPERATION OF THE FRANCIS BITTER NATIONAL MAGNET LABORATORY (DMR-7101679 A34)*; 12 MONTHS $4,575,000

KASTNER, MARC; *LUMINESCENCE STUDIES OF DEFECTS IN LONE-PAIR SEMICONDUCTORS (DMR-7900836 A03)*; 6 MONTHS $30,000

OWEN, WALTER S; *MARTENSITIC DEFORMATION UNDER CYCLIC STRESS (DMR-7807775 A02)*; 12 MONTHS $55,400

BALLUFFI, ROBERT W, AND BRISTOWE, PAUL D; *STRUCTURE OF GRAIN BOUNDARIES (DMR-7813804 A02)*; 12 MONTHS $77,300

JOHNSON, KEITH H; *ELECTRONIC STRUCTURES AND CHEMICAL BONDING OF SMALL METAL AND ALLOY AGGREGATES (DMR-7818800 A02)*; 12 MONTHS $45,000

LITSTER, J DAVID; *SCATTERING SPECTROSCOPY OF LIQUID CRYSTALS (DMR-7823555 A02)*; 12 MONTHS $94,800

DRESSELHAUS, MILDRED S; *INTERDISCIPLINARY MATERIALS RESEARCH (DMR-7824185 A04*)*; 12 MONTHS $2,380,000

DRESSELHAUS, MILDRED S; *INTERDISCIPLINARY MATERIALS RESEARCH (DMR-7824185 A05*)*; $110,000

TULLER, HARRY L; *DEFECTS AND CONDUCTION MECHANISM IN NONSTOICHIOMETRIC METAL OXIDES (DMR-7826306 A02)*; 12 MONTHS $46,000

MESERVEY, ROBERT H; *SPIN POLARIZED TUNNELING TECHNIQUES FOR THE STUDY OF FERROMAGNETIC CRYSTALS (DMR-7910047 A01)*; 10 MONTHS $34,300

BIRGENEAU, ROBERT J; *NEUTRON SCATTERING STUDIES IN ONE, TWO, AND THREE DIMENSIONS ESPECIALLY IN DISORDERED MATERIALS (DMR-7923203 A01)*; 12 MONTHS $85,000

GATOS, HARRY C, AND LAGOWSKI, JACEK; *NEW APPROACHES TO THE PREPARATION AND CHARACTERIZATION OF GAAS STRUCTURE FOR DEVICE APPLICATIONS (ECS-7923741 A01*)*; 12 MONTHS $20,000

EAGAR, THOMAS W; *KINETICS OF SLAG-METAL REACTIONS IN WELDING (DMR-7926324 A01)*; 12 MONTHS $62,800

BERKER, A NIHAT; *PHASE TRANSITIONS AND CRITICAL PHENOMENA IN LOW DIMENSIONAL SYSTEMS (DMR-7926405 A01)*; 12 MONTHS $35,000

BERNEY, CHARLES V, AND COHEN, ROBERT E; *INTERPHASE CHARACTERISTICS IN BLOCK COPOLYMERS (DMR-8001674 A01)*; 12 MONTHS $55,000

GREYTAK, THOMAS J, AND KLEPPNER, DANIEL; *RESEARCH ON SPIN-POLARIZED HYDROGEN (DMR-8007850 A01)*; 12 MONTHS $130,000

GREYTAK, THOMAS J, AND KLEPPNER, DANIEL; *RESEARCH ON SPIN-POLARIZED HYDROGEN (DMR-8007850 A02)*; $16,400

ARGON, ALI S; *GROWTH OF CRAZES IN GLASSY POLYMERS (DMR-8012990 A01)*; 15 MONTHS $67,200

KING, THOMAS B; *KINETICS OF REACTIONS BETWEEN ARC PLASMAS AND LIQUID METALS (DMR-8015499 A01)*; 12 MONTHS $60,000

SHULL, C G; *MAGNETIC ORDERING AND NEUTRON PHYSICS STUDIES (DMR-8021057)*; 12 MONTHS $180,000

RUSSELL, KENNETH C; *DEFECT AGGREGATION IN IRRADIATED METALS (DMR-8021244)*; 12 MONTHS $73,400

ALLEN, SAMUEL M; *UNIFIED THEORETICAL AND EXPERIMENTAL APPROACH TO THE STUDY OF INTERNAL SURFACES IN SOLIDS (DMR-8022277)*; 12 MONTHS $75,000

LATANISION, RONALD M; *THE STABILITY OF AMORPHOUS METALS IN CORROSIVE ENVIRONMENTS (DMR-8106233)*; 18 MONTHS $110,200

LATANISION, RONALD M; *SURFACE EFFECTS ON THE PLASTICITY OF CRYSTALLINE SOLIDS (DMR-8107497)*; 12 MONTHS $35,000

SMITH, JOSEPH L; *ACQUISITION OF A HELIUM RECOVERY AND REPURIFICATION SYSTEM (DMR-8110436)*; 12 MONTHS $75,000

DRESSELHAUS, MILDRED S, LATANISION, RONALD M, AND PUTNAM, FREDERICK A; *UPGRADING OF SURFACE ANALYTICAL FACILITY (DMR-8114766)*; 12 MONTHS $100,000

HOBBS, L W; *MICROSTRUCTURAL DEVELOPMENT OF OXIDE AND SUBSTRATE DURING OXIDATION OF NICKEL AND NICKEL-BASE ALLOYS (DMR-8115513)*; 12 MONTHS $63,000

NORTHEASTERN UNIVERSITY

WU, FA-YUEH; *STATISTICAL MECHANICS AND THE MANY-BODY PROBLEM (DMR-7818808 A02)*; 12 MONTHS $26,900

BANSIL, ARUN; *ELECTRONIC STATES IN DISORDERED MATERIALS (DMR-7902600 A02)*; 12 MONTHS $39,900

SOKOLOFF, JEFFREY B, AND PERRY, CLIVE H; *POLARIZED NEUTRON SCATTERING BY SPIN WAVES IN FERROMAGNETIC MATERIALS (DMR-7906371 A01)*; 16 MONTHS $67,000

REIFF, WILLIAM M; *MAGNETIC ORDERING AND STRUCTURAL PHASE TRANSITIONS IN TRANSITION METAL COMPOUNDS (DMR-8016441 A01)*; 15 MONTHS $65,000

TUFTS UNIVERSITY

GUERTIN, ROBERT P; *METALLIC MAGNETISM - EFFECTS OF PRESSURE AND OF MAGNETIC IMPURITIES IN SUPERCONDUCTORS (DMR-7906659 A02)*; 12 MONTHS $53,000

UNIVERSITY OF LOWELL

BLUMSTEIN, ALEXANDRE, BLUMSTEIN, RITA B, AND CLOUGH, STUART B; *FLEXIBLE POLYMERS WITH MESOGENIC GROUPS (DMR-7925059 A01)*; 12 MONTHS $59,600

SALAMONE, JOSEPH C, AND WATTERSON, ARTHUR C; *AMPHOLYTIC POLYMERS (DMR-8102933)*; 12 MONTHS $59,100

UNIVERSITY OF MASSACHUSETTS, AMHERST

STEIN, RICHARD S; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: OPTICAL, X-RAY AND NEUTRON SCATTERING STUDIES OF POLYMER MORPHOLOGY AND RELAXATION (DMR-7805925 A03)**; 12 MONTHS $64,000

KARASZ, FRANK E, AND PORTER, ROGER S; *MATERIALS RESEARCH LABORATORY IN POLYMERS (DMR-7824151 A02)*; 12 MONTHS $620,000

HSU, SHAW LING; *LOW FREQUENCY RAMAN SPECTROSCOPIC STUDIES OF POLYMER MORPHOLOGY AND DEFORMATION (DMR-7902883 A01)*; $12,000

HALLOCK, ROBERT B; *STATIC AND DYNAMIC PROPERTIES OF 4HE, 3HE AND 3HE-4HE MIXTURES (DMR-7909248 A03)*; 12 MONTHS $115,000

HALLOCK, ROBERT B; *STATIC AND DYNAMIC PROPERTIES OF 4HE, 3HE, AND 3HE-4HE MIXTURES (DMR-7909248 A04)*; $16,800

GUYER, ROBERT A; *PROBLEMS IN QUANTUM AND CLASSICAL STATISTICAL MECHANICAL SYSTEMS (DMR-7909592 A01)*; 12 MONTHS $32,600

JAKUS, KARL, RITTER, JOHN E, AND SONDERMAN, DAVID; *STATISTICAL ANALYSIS OF MULTIPLE FLAW DISTRIBUTIONS IN GLASS AND CERAMIC MATERIALS (DMR-8006085 A01)*; 12 MONTHS $42,500

CHIEN, JAMES C W; *IUPAC MACROMOLECULAR SYMPOSIUM, AMHERST, MASSACHUSETTS, JULY 12-16, 1982 (DMR-8008876 A01)*; 12 MONTHS $10,000

VOGL, OTTO; *POLYMERS FROM FUNCTIONALLY SUBSTITUTED CYCLIC ETHERS OR OLEFINS (DMR-8017058)*; 12 MONTHS $49,400

CHIEN, JAMES C W, AND KARASZ, FRANK E; *CONDUCTIVITY IN POLYACETYLENE AND DERIVATIVES (DMR-8019049)*; 12 MONTHS $65,000

OTTINO, J MARIO; *DIFFUSION OF SMALL MOLECULES IN POLYMER BLENDS (DMR-8020244)*; 12 MONTHS $47,700

LENZ, ROBERT W; *MONOMER REACTIVITY AND POLYMER STRUCTURE IN CATIONIC POLYMERIZATION (DMR-8022273)*; 12 MONTHS $33,600

HALLOCK, ROBERT B; *ACQUISITION OF A HELIUM LIQUEFIER FACILITY (DMR-8024127)*; 24 MONTHS $125,000

MAC KNIGHT, WILLIAM J; *MICROPHASE SEPARATION IN ORGANIC POLYMERS CONTAINING SALT GROUPS (DMR-8106224)*; 12 MONTHS $60,400

HSU, SHAW LING; *VIBRATIONAL SPECTROSCOPIC STUDIES OF POLYMER MORPHOLOGY AND DEFORMATION (DMR-8108532)*; 12 MONTHS $50,300

MICHIGAN

MICHIGAN MOLECULAR INSTITUTE

QUIRK, RODERIC P; *INTERNATIONAL SYMPOSIUM ON TRANSITION-METAL CATALYZED POLYMERIZATIONS: UNSOLVED PROBLEMS; MIDLAND, MICHIGAN; AUGUST 17-21, 1981 (DMR-8022278)*; 12 MONTHS $4,000

MICHIGAN STATE UNIVERSITY

THORPE, MICHAEL F; *THEORY OF SOME DISORDERED SYSTEMS (DMR-7909170 A02)*; 6 MONTHS $29,000

EICK, HARRY A; *SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF SOME MIXED HALIDE PHASES (DMR-7915187 A01)*; 12 MONTHS $49,000

DYE, JAMES L; *SOLID-STATE AND SOLUTION PROPERTIES OF ALKALI METAL ANIONS AND TRAPPED OR SOLVATED ELECTRONS (DMR-7921979 A01)*; 12 MONTHS $88,700

BASS, JACK, AND FOILES, CARL L; *STUDIES OF ELECTRON TRANSPORT AND MAGNETIC INTERACTIONS IN METALS (DMR-8005865 A01)*; 12 MONTHS $80,500

SOLIN, STUART A; *ELECTRONIC AND OPTICAL PROPERTIES OF GRAPHITE INTERCALATION COMPOUNDS (DMR-8010486 A01)*; 12 MONTHS $49,700

DYE, JAMES L; *ACQUISITION OF A VARIABLE TEMPERATURE SUPERCONDUCTING SQUID SUSCEPTOMETER (DMR-8012899 A01)*; $27,000

THORPE, MICHAEL F; *CONFERENCE ON EXCITATIONS IN DISORDERED SYSTEMS AT MICHIGAN STATE UNIVERSITY, AUGUST 23 TO SEPTEMBER 4, 1981 (DMR-8101218)*; 6 MONTHS $5,000

SCHROEDER, PETER A, BASS, JACK, BLATT, FRANK J, AND PRATT, WILLIAM P; *ELECTRONIC PROPERTIES OF METALS, SEMI-METALS AND ALLOYS DOWN TO ULTRALOW TEMPERATURES (DMR-8106487)*; 12 MONTHS $112,000

MICHIGAN TECHNOLOGICAL UNIVERSITY

COURTNEY, THOMAS H; *INTERPHASE BOUNDARY INITIATED FRACTURE (DMR-7805741 A04*)*; 6 MONTHS $70,000

HELLAWELL, ANGUS; *SOLIDIFICATION STUDIES OF ALLOYS IN MONOTECTIC AND EUTECTIC SYSTEMS (DMR-8019596)*; 12 MONTHS $66,900

HELLAWELL, ANGUS; *ACQUISITION OF A RESEARCH OPTICAL MICROSCOPE (DMR-8025230)*; 12 MONTHS $33,000

UNIVERSITY OF MICHIGAN-ANN ARBOR

KRIMM, SAMUEL; *VIBRATIONAL SPECTRA AND STRUCTURE OF MACROMOLECULES (DMR-7800753 A03)*; 12 MONTHS $110,10C

SANDER, LEONARD M; *STRONGLY INTERACTING QUANTUM SYSTEMS (DMR-7825012 A02)*; 12 MONTHS $37,300

BRETZ, MICHAEL; *MONOLAYER FILMS ADSORBED ON HIGHLY UNIFORM, WELL-ALIGNED GRAPHITE SUBSTRATES (DMR-7903614 A02)*; 12 MONTHS $63,000

HOSFORD, WILLIAM F, AND CADDELL, ROBERT M; *YIELD OF ANISOTROPIC MATERIALS UNDER COMBINED STRESS (DMR-7923231 A01)*; 12 MONTHS $37,000

UHER, CTIRAD; *SUPERCONDUCTIVITY IN LOW CARRIER DENSITY GROUP V SEMIMETALS (DMR-7924374 A01)*; 12 MONTHS $38,000

UHER, CTIRAD; *ACQUISITION OF EQUIPMENT FOR SUPERCONDUCTIVITY STUDIES IN LOW CARRIER DENSITY GROUP V SEMIMETALS (DMR-7924374 A02)*; $20,000

SUMMERFIELD, GEORGE C, KING, JOHN S, AND ULLMAN, ROBERT; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: MOLECULAR CONFORMATION OF POLYMERS BY SMALL-ANGLE NEUTRON SCATTERING (DMR-7926254 A01*)*; 12 MONTHS $30,400

KOPELMAN, RAOUL; *ENERGY TRANSPORT IN MOLECULAR SOLIDS (DMR-8000679 A01)*; 12 MONTHS $65,500

CLARKE, ROY; *X-RAY DIFFUSE SCATTERING STUDIES OF MATERIALS WITH REDUCED DIMENSIONALITY (DMR-8001655 A01)*; 12 MONTHS $60,000

PEHLKE, ROBERT D; *PLASMA ARC REMELTING-GAS-METAL REACTIONS AND HEAT TRANSFER (DMR-8007060 A01)*; 12 MONTHS $20,000

WITTEN, THOMAS A; *RENORMALIZATION GROUP SYMMETRY OF THE EXCLUDED VOLUME PROBLEM (DMR-8012867)*; 12 MONTHS $37,500

GULARI, ERDOGAN; *LIGHT AND X-RAY SCATTERING STUDIES OF POLYMER SOLUTIONS (DMR-8100130)*; 12 MONTHS $46,500

WADA, HARUE, AND PEHLKE, ROBERT D; *STABILITY OF CARBIDES IN ALLOY STEELS AND RESISTANCE TO HYDROGEN ATTACK (DMR-8105026)*; 8 MONTHS $35,100

KRIMM, SAMUEL; *ACQUISITION OF RAMAN SPECTROMETER (DMR-8106236*)*; 12 MONTHS $25,300

OVERBERGER, CHARLES G; *SYNTHESIS AND PROPERTIES OF ASYMMETRIC POLYMERS (DMR-8106891)*; 12 MONTHS $66,400

WAYNE STATE UNIVERSITY

DUNIFER, GERALD L; *MILLIMETER-MICROWAVE INVESTIGATION OF METALS (DMR-7913786 A01)*; 12 MONTHS $40,700

WENGER, L E; *CALORIMETRIC AND MAGNETIC STUDIES OF DISORDERED MAGNETIC MATERIALS (DMR-7921298 A01)*; 12 MONTHS $28,600

ALEXANDER, RALPH B; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ION CHANNELING STUDIES OF SOLIDS (DMR-8007248 A02*)*; 12 MONTHS $25,900

CHEN, JUEI-TENG, AND CHANG, JHY-JIUN; *JOSEPHSON VORTEX PROPERTIES AND NONEQUILIBRIUM SUPERCONDUCTIVITY (DMR-8024052)*; 12 MONTHS $57,000

MINNESOTA

UNIVERSITY OF MINNESOTA

SCHMIDT, LANNY D; *STRUCTURE AND KINETICS IN GAS-SURFACE INTERACTIONS (DMR-7919233 A01)*; 12 MONTHS $65,900

CAMPBELL, CHARLES E; *THEORY OF QUANTUM FLUIDS (DMR-7926447 A01)*; 12 MONTHS $44,000

GOLDMAN, ALLEN M, AND DAVIS, H TED; *SINGLE-PARTICLE AND PAIR TUNNELING SPECTROSCOPY OF SUPERCONDUCTORS (DMR-8006959 A01)*; 12 MONTHS $64,000

OVEREND, JOHN; *INFRARED SPECTROSCOPY OF ADSORBATES ON LOW-AREA METAL SURFACES (DMR-8016509)*; 12 MONTHS $86,100

UNIVERSITY OF MINNESOTA AT SAINT PAUL

GOLDMAN, ALLEN M; *PERCOLATION, LOCALIZATION AND SUPERCONDUCTIVITY IN METAL-GAS SOLIDS (DMR-8011948)*; 12 MONTHS $45,000

GOLDMAN, ALLEN M, AND DAVIS, H TED; *ACQUISITION OF EQUIPMENT FOR SINGLE-PARTICLE AND PAIR TUNNELING SPECTROSCOPY OF SUPERCONDUCTORS (DMR-8015310)*; 12 MONTHS $21,300

MISSISSIPPI

UNIVERSITY OF MISSISSIPPI

BOO, WILLIAM O; *PREPARATION AND STUDY OF LOWER VALENCE FLUORIDES OF VANADIUM AND RELATED MATERIALS (DMR-7900313 A02)*; 12 MONTHS $37,000

PANETTA, CHARLES A, AND METZGER, ROBERT M; *ELECTRICAL RECTIFICATION BY ORGANIC MONOLAYERS: SYNTHESIS AND SCREENING (DMR-8015658)*; 12 MONTHS $46,300

UNIVERSITY OF SOUTHERN MISSISSIPPI

GRIFFIN, ANSELM C; *EFFECT OF MOLECULAR STRUCTURE ON MESOMORPHIC BEHAVIOR (DMR-7805284 A02)*; 12 MONTHS $34,300

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

ANDERSON, HARLAN U, AND WUTTIG, MANFRED R; *LIQUID CORROSION OF CERAMICS (DMR-7909401 A02)*; 12 MONTHS $60,000

YELON, WILLIAM B; *MULTI-USE GAMMA RAY DIFFRACTOMETER FOR RESEARCH ON SOLIDS (DMR-7912508 A01)*; 10 MONTHS $39,200

UNIVERSITY OF MISSOURI, ROLLA

WUTTIG, MANFRED R; *NONLINEAR ANELASTICITY OF METALS AND ALLOYS (DMR-7902628 A02)*; 12 MONTHS $69,400

DAY, DELBERT E; *THERMALLY STIMULATED CURRENTS IN ALKALI CONTAINING GLASSES (DMR-7918425 A01)*; 12 MONTHS $37,300

LEVENSON, LEONARD L; *ACQUISITION OF SCANNING ELECTRON MICROSCOPE EQUIPMENT (DMR-8015800*)*; 12 MONTHS $61,000

JAMES, WILLIAM J; *THE 15TH RARE EARTH RESEARCH CONFERENCE; ROLLA, MISSOURI; JUNE 15-18, 1981 (DMR-8105331)*; 6 MONTHS $4,500

WASHINGTON UNIVERSITY

YARIS, ROBERT; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: RELAXATION STUDIES ON GLASSY POLYMERS (DMR-8007025 A01*)*; 12 MONTHS $25,900

CLARK, JOHN W; *MICROSCOPIC THEORY OF QUANTUM FLUIDS AND EXTENDED NUCLEAR SYSTEMS (DMR-8008229 A01*)*; 12 MONTHS $21,000

NORBERG, RICHARD E, AND LUSZCZYNSKI, KAZIMIERZ; *PULSED MAGNETIC RESONANCE AND OTHER STUDIES AT LOW TEMPERATURES (DMR-8010818 A01)*; 12 MONTHS $99,700

POWELL, ROBERT L; *EXPANSION AND MODERNIZATION OF RHEOLOGICAL TESTING EQUIPMENT (DMR-8015350*)*; 12 MONTHS $6,500

PHILLIPS, WILLIAM D; *PURCHASE OF A RESEARCH 200 MHZ NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8100211*)*; 12 MONTHS $20,000

BOLEF, DAN I, AND SUNDFORS, RONALD K; *ACOUSTIC MAGNETIC RESONANCE STUDIES OF METALS AND ALLOYS (DMR-8106142)*; 12 MONTHS $94,000

MONTANA

MONTANA STATE UNIVERSITY

CONE, RUFUS L; *COHERENT LASER STUDIES OF DYNAMIC AND COOPERATIVE PHENOMENA IN SOLIDS (DMR-7906892 A01)*; 12 MONTHS $60,500

SCHMIDT, V HUGO; *CRITICAL PHENOMENA IN H-BONDED FERROELECTRICS (DMR-8106493)*; 12 MONTHS $45,000

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

ECKHARDT, CRAIG J; *PIEZOMODULATION SPECTROSCOPY OF MOLECULAR CRYSTALS (DMR-7908759 A02)*; 15 MONTHS $115,000

KIRBY, ROGER D; *RAMAN AND FAR-INFRARED STUDIES OF INSTABILITIES IN TRANSITION METAL COMPOUNDS (DMR-7910025 A01)*; 9 MONTHS $39,800

SELLMYER, DAVID J; *ELECTRONS IN COMPLEX SOLIDS (DMR-8110590)*; 12 MONTHS $56,000

NEW HAMPSHIRE

DARTMOUTH COLLEGE-THAYER SCHOOL OF ENGINEERING

KENNEDY, FRANCIS E; *ACQUISITION OF EQUIPMENT FOR X-RAY ENERGY SPECTROSCOPY (DMR-8108069)*; 12 MONTHS $22,500

NEW JERSEY

PRINCETON UNIVERSITY

BERNASEK, STEVEN L; *TRANSITION METAL COMPOUND SURFACES (DMR-8019772)*; 12 MONTHS $80,000

ANDERSON, PHILIP W; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: APPLICATIONS OF MANY-BODY THEORY (ISI-8020263*)*; 12 MONTHS $42,000

DE CONDE, KEITH; *EXPERIMENTS ON SUPERFLUID HELIUM THREE AND DISORDERED SOLIDS (DMR-8104414)*; 12 MONTHS $70,000

KOBERSTEIN, JEFFREY T; *DIFFUSE BOUNDARY STRUCTURE IN MULTIPHASE POLYMER SYSTEMS (DMR-8105612)*; 12 MONTHS $51,900

HALL, CAROL K; *STATISTICAL THEORY OF THE PHASE-CHANGE BEHAVIOR OF METALHYDROGEN SYSTEMS (CHE-8109557*)*; 12 MONTHS $17,500

RUTGERS UNIVERSITY-BUSCH CAMPUS

GREENBLATT, MARTHA; *PREPARATION AND PROPERTIES OF COMPOUNDS WITH TRANSITION ELEMENTS IN NOVEL OXIDATION STATES (DMR-7808554 A01)*; 12 MONTHS $34,200

GLABERSON, WILLIAM; *VELOCITY AND THERMAL ROTATION IN SUPERFLUID HELIUM (DMR-7825409 A02)*; 12 MONTHS $67,500

TSAKALAKOS, THOMAS; *THE SUPERMODULUS EFFECT IN BULK ALLOYS (DMR-7826503 A02)*; 12 MONTHS $37,300

SAUER, J A; *ENHANCEMENT OF CRAZE AND FATIGUE RESISTANCE IN GLASSY POLYMERS (DMR-7827558 A02)*; 15 MONTHS $67,500

LANGRETH, DAVID C; *ELECTRON CORRELATIONS AND PROPERTIES OF METALS AND INSULATORS (DMR-8007470 A01)*; 12 MONTHS $44,000

GLABERSON, WILLIAM; *ACQUISITION OF HELIUM LIQUEFIER AND RENOVATION OF RECOVERY SYSTEM (DMR-8008217 A01)*; $10,000

WEISSMANN, SIGMUND, AND PAE, KOOK D; *ACQUISITION OF IMPROVED X-RAY EQUIPMENT (DMR-8028545*)*; 12 MONTHS $70,000

SCHEINBEIM, JERRY I, AND COUCHMAN, PETER R; *POLYMER BLENDS AT ATMOSPHERIC AND HIGH HYDROSTATIC PRESSURES (DMR-8106153)*; 6 MONTHS $27,200

RUTGERS UNIVERSITY

LEBOWITZ, JOEL L; *STATISTICAL MECHANICS (PHY-7815930 A02*)*; 12 MONTHS $33,900

MANNING, GERALD S; *FURTHER DEVELOPMENT OF POLYELECTROLYTE THEORY (DMR-7819289 A02)*; 12 MONTHS $19,400

LINDENFELD, PETER; *THERMAL, ELECTRICAL, AND MAGNETIC MEASUREMENTS ON GRANULAR ALUMINUM (DMR-7824213 A02)*; 12 MONTHS $88,000

LINDENFELD, PETER, AND MCLEAN, WILLIAM L; *THERMAL, ELECTRICAL, AND MAGNETIC MEASUREMENTS ON GRANULAR ALUMINUM (DMR-7824213 A03)*; $26,000

KOLLER, NOEMIE; *HYPERFINE INTERACTIONS AND ELECTRONIC STRUCTURE BY MOSSBAUER/CONVERSION ELECTRON SPECTROSCOPY (DMR-7900816 A02)*; 12 MONTHS $60,000

ABRAHAMS, ELIHU, AND SAK, JOSEPH; *THEORETICAL SOLID STATE PHYSICS (DMR-7921360 A01)*; 12 MONTHS $73,700

HERBER, ROLFE H; *MOSSBAUER EFFECT STUDIES IN CHEMISTRY AND SOLID STATE PHYSICS (DMR-8102940)*; 12 MONTHS $80,200

WEISSMANN, SIGMUND; *X-RAY STUDIES OF FRACTURE PROBLEMS AND CORRELATION TO FRACTURE MECHANICS (DMR-8104985)*; 12 MONTHS $59,100

STEPHEN, MICHAEL J; *CRITICAL PHENOMENA IN DISORDERED SYSTEMS (DMR-8106151)*; 12 MONTHS $45,000

TEXTILE RESEARCH INSTITUTE

WEIGMANN, HANS D; *SURFACE-CONTROLLED CRYSTALLIZATION OF FIBROUS POLYMERS (DMR-7905980 A02)*; 12 MONTHS $68,200

NEW MEXICO

LOS ALAMOS SCIENTIFIC LABORATORY

KITCHENS, THOMAS A; *IPA MOBILITY ASSIGNMENT (THOMAS A. KITCHENS) (DMR-8026476)*; 12 MONTHS $57,975

UNIVERSITY OF NEW MEXICO

ELLISON, JAMES A; *THEORETICAL INVESTIGATIONS OF PARTICLE CHANNELING (DMR-7926364 A01)*; 12 MONTHS $13,000

NEW YORK

ADELPHI UNIVERSITY

RUDMAN, REUBEN; *CALORIMETRIC AND X-RAY STUDIES OF ORIENTATIONAL DISORDER IN CRYSTALS (DMR-7825865 A02)*; 12 MONTHS $41,000

AMERICAN PHYSICAL SOCIETY

CONWELL, ESTHER M, AND EPSTEIN, ARTHUR J; *INTERNATIONAL CONFERENCE ON LOW-DIMENSIONAL CONDUCTORS; BOULDER, COLORADO; AUGUST 10-14, 1981 (DMR-8105315)*; 9 MONTHS $5,000

BROOKLYN COLLEGE

POLLAK, FRED H; *PIEZO-SPECTROSCOPY INVESTIGATION OF BANDS AND BONDS IN SOLIDS (DMR-7809090 A02)*; 12 MONTHS $28,500

CITY COLLEGE

BIRMAN, JOSEPH L; *THEORETICAL SOLID STATE PHYSICS (DMR-7812399 A03)*; 6 MONTHS $24,000

ALFANO, ROBERT R; *SPIN ALIGNED ELECTRONS IN SEMICONDUCTORS (DMR-7817805 A02)*; 12 MONTHS $44,000

CUMMINS, HERMAN Z; *LASER LIGHT SCATTERING STUDIES OF SOLIDS (DMR-8020835)*; 12 MONTHS $83,900

CLARKSON COLLEGE OF TECHNOLOGY

GLASSER, M LAWRENC; *ELLIPTIC INTEGRALS, LATTICE SUMS AND THEIR APPLICATIONS (MCS-8021250*)*; 12 MONTHS $6,212

MATIJEVIC, EGON, AND WILCOX, WILLIAM R; *ACQUISITION OF AN ENERGY DISPERSIVE X-RAY SPECTROMETER (DMR-8106037)*; 12 MONTHS $25,000

RASMUSSEN, DON H; *EMULSIFICATION, UNDERCOOLING AND NUCLEATION OF PURE METALS AND ALLOYS (DMR-8107117)*; 9 MONTHS $53,200

COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

SMID, JOHANNES; *MACROHETEROCYCLIC LIGANDS ON POLYMERS: SOLUTE BINDING AND CATALYSIS (CHE-7905890 A02*)*; 12 MONTHS $10,000

COLUMBIA UNIVERSITY

MACHLIN, EUGENE S; *INTERATOMIC POTENTIALS TO STUDY PHYSICAL PHENOMENA IN ALLOY SYSTEMS (DMR-8004237 A01)*; 12 MONTHS $63,900

NOWICK, ARTHUR S; *DEFECTS AND DEFECT MOBILITY IN IONIC CRYSTALS (DMR-8006326 A01)*; 12 MONTHS $48,100

HARTMANN, SVEN R; *SPECTROSCOPY, RELAXATION, AND EXCITATION TRANSFER OF OPTICALLY EXCITED STATES IN SOLIDS (DMR-8006966 A01)*; 12 MONTHS $30,500

TIEN, JOHN K; *HIGH TEMPERATURE CREEP STRESS RUPTURE, AND CRACK GROWTH IN MULTIPHASE ALLOYS (DMR-8011402 A01)*; 12 MONTHS $71,900

CORNELL UNIVERSITY

WOLF, EDWARD D; *NATIONAL RESEARCH AND RESOURCE FACILITY FOR SUBMICRON STRUCTURES (ECS-7709688 A04*)*; 15 MONTHS $60,000

BAUER, SIMON H; *HOMOGENEOUS CONDENSATION OF METAL VAPORS - PHYSICAL AND CHEMICAL CHARACTERIZATION OF CONDENSATES (DMR-7810907 A02)*; 12 MONTHS $37,500

SASS, S L, AND CARTER, C B; *DIFFRACTION STUDIES OF GRAIN BOUNDARY STRUCTURES IN FACE-CENTERED-CUBIC METALLIC MATERIALS (DMR-7916331 A01)*; 12 MONTHS $113,000

RHODIN, THOR N; *ELECTRONIC STRUCTURE OF PROTOTYPE ADSORBATE-MODIFIED METAL SURFACES (DMR-7919547 A01)*; 12 MONTHS $43,700

KRAMER, EDWARD J; *FUNDAMENTALS OF ENVIRONMENTAL FRACTURE IN POLYMERS (DMR-7919828 A01)*; 12 MONTHS $45,500

JOHNSON, HERBERT H; *INTERDISCIPLINARY MATERIALS RESEARCH (DMR-7924008 A01)*; 12 MONTHS $3,220,000

JOHNSON, HERBERT H; *INTERDISCIPLINARY MATERIALS RESEARCH (DMR-7924008 A02)*; $180,000

BLAKELY, JOHN M; *SEGREGATION, ADSORPTION AND REACTIONS AT METAL SURFACES (DMR-7926443 A01)*; 12 MONTHS $101,000

SEIDMAN, DAVID N, CARTER, C B, SASS, S L, AND GRUBB, DAVID T; *ACQUISITION OF AN ELECTRON MICROSCOPE (DMR-8021080*)*; 18 MONTHS $63,900

HO, WILSON; *TIME-RESOLVED VIBRATIONAL SPECTROSCOPY OF SURFACE DYNAMICS (DMR-8022786)*; 12 MONTHS $88,600

SIENKO, M J; *SOLID STATE CHEMISTRY AND CATALYSIS BY LAYERED DICHALCOGENIDES (DMR-8024050)*; 12 MONTHS $76,000

FREED, JACK H; *MOLECULAR DYNAMICS, STRUCTURE, AND PHASE TRANSITIONS IN LIQUID-CRYSTALLINE MEDIA: ESR STUDIES (DMR-8102047)*; 12 MONTHS $66,300

CARTER, C B, AND SCHMALZRIED, HERMANN; *STRUCTURE OF SOLID-SOLID PHASE BOUNDARIES AND THEIR RELATION TO THE MODE OF SOLID STATE REACTIONS (DMR-8102994)*; 12 MONTHS $40,000

JOHNSON, HERBERT H; *ACQUISITION OF A LIQUEFIER FOR MATERIALS PHYSICS (DMR-8103018)*; 24 MONTHS $87,600

SIEVERS, ALBERT J; *THE INFRARED AND OPTICAL PROPERTIES OF CLEAN AND ADSORBATE COVERED METAL SURFACES (DMR-8106097)*; 9 MONTHS $56,600

WEBB, WATT W, AND NELKIN, MARK S; *FLUCTUATIONS DIAGNOSTICS IN SUBMICRON CONDUCTORS (DMR-8108328)*; 14 MONTHS $80,000

BATTERMAN, BORIS W; *SECOND NATIONAL CONFERENCE ON SYNCHROTRON RADIATION INSTRUMENTATION; ITHACA, NEW YORK; JULY 1981 (DMR-8112551)*; 6 MONTHS $5,400

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

BATTERMAN, BORIS W, AND ASHCROFT, NEIL W; *ESTABLISHMENT OF A HIGH ENERGY X-RAY SYNCHROTRON RADIATION LABORATORY (DMR-7801267 A03)*; 12 MONTHS $470,000

POHL, ROBERT O; *LOW TEMPERATURE THERMAL PROPERTIES OF AMORPHOUS SOLIDS: NITRATE GLASSES (DMR-7801560 A03)*; 6 MONTHS $27,000

SCOTT, J CAMPBEL; *MAGNETISM IN LINEAR SYSTEMS (DMR-7808450 A01)*; 8 MONTHS $15,000

LEE, DAVID M; *SUPERFLUID HELIUM-3 IN HIGH MAGNETIC FIELDS (DMR-7810901 A03)*; 6 MONTHS $36,000

MAHR, HERBERT; *ULTRAFAST ELECTRONIC RELAXATION OF HIGHLY PHOTO-EXCITED MATERIALS (DMR-7816751 A02)*; 12 MONTHS $41,500

LEE, DAVID M, AND FREED, JACK H; *HYDROGEN ATOMS AND OTHER SIMPLE FREE RADICALS AT LOW TEMPERATURES AND AT HIGH MAGNETIC FIELDS (DMR-7822204 A02)*; 14 MONTHS $17,000

COTTS, ROBERT M; *EXPERIMENTAL INVESTIGATION OF HYDROGEN DIFFUSION IN METALS (DMR-7925373 A01)*; 12 MONTHS $55,000

WILSON, KENNETH G; *ACQUISITION OF AN ARRAY PROCESSOR FOR SCIENTIFIC COMPUTING (DMR-7927167*)*; 6 MONTHS $27,400

SILSBEE, ROBERT H; *ELECTRON SPIN RESONANCE (DMR-8008546 A01)*; 12 MONTHS $54,000

HOLCOMB, DONALD F; *EXPERIMENTAL INVESTIGATION OF ELECTRON LOCALIZATION PHENOMENA IN DISORDERED SYSTEMS (DMR-8015352)*; 12 MONTHS $35,500

AMBEGAOKAR, VINAY; *THEORETICAL CONDENSED MATTER PHYSICS (DMR-8020429)*; 12 MONTHS $270,000

COTTS, ROBERT M, AND HOLCOMB, DONALD F; *ACQUISITION OF A SUPERCONDUCTING MAGNET SYSTEM FOR NUCLEAR MAGNETIC RESONANCE IN SOLIDS (DMR-8023453*)*; 12 MONTHS $30,000

REPPY, JOHN D; *QUANTUM FLUIDS (DMR-8100222)*; 12 MONTHS $98,000

GREGORY, STEPHEN; *PROPERTIES OF ABSORBED OXYGEN (DMR-8106887)*; 6 MONTHS $27,900

RICHARDSON, ROBERT C; *LOW TEMPERATURE PROPERTIES OF HELIUM-3 (DMR-8108331)*; 10 MONTHS $87,000

COHEN, CLAUDE; *RELAXATION AND DIFFUSION IN POLYMERS (DMR-8111114)*; 9 MONTHS $46,000

INTERNATIONAL BUSINESS MACHINES CORPORATION-T J WATSON RESEARCH CENTER

PANTELIDES, SOKRATES T; *THIRD 'LUND INTERNATIONAL CONFERENCE ON DEEP-LEVEL IMPURITIES IN SEMICONDUCTORS, SOUTHBURY, CONNECTICUT, MAY 26-29, 1981 (DMR-8100197)*; 6 MONTHS $5,000

NEW YORK UNIVERSITY

LEVY, PETER M; *THEORY OF ORBITAL EFFECTS IN RARE-EARTH COMPOUNDS (DMR-7825008 A02*)*; 12 MONTHS $65,200

WILLIAMSON, SAMUEL J; *ELECTRONIC AND MAGNETIC PROPERTIES OF SOLIDS AT LOW TEMPERATURES (DMR-7917401 A01)*; 12 MONTHS $50,700

BRENNER, HENRY C; *TRIPLET ENERGY MIGRATION IN MOLECULAR CRYSTALS (DMR-8024275)*; 12 MONTHS $46,100

SPENCER, THOMAS; *RIGOROUS ANALYSIS AT CRITICAL PHENOMENA IN STATISTICAL MECHANICS (MCS-8100417*)*; 12 MONTHS $12,500

POLYTECHNIC INSTITUTE OF NEW YORK

MORAWETZ, HERBERT; *POLYMER STUDIES BY FLUORESCENCE AND CRYSTALLOGRAPHIC TECHNIQUES (DMR-7705210 A04)*; 12 MONTHS $79,500

BANKS, EPHRAIM; *ANION-DEFICIENT OXIDES AS CATALYSTS: RELATION BETWEEN ANION VACANCIES AND CATALYTIC ACTIVITY (DMR-7724133 A02)*; 16 MONTHS $41,500

PARKS, RONALD D; *EXPERIMENTAL STUDIES OF ANDERSON LATTICE SYSTEMS (DMR-8005099 A01)*; 12 MONTHS $55,000

MARGOLIN, HAROLD; *GRAIN BOUNDARY CONTRIBUTION TO THE BAUSCHINGER EFFECT AND SLIP SYSTEM CRITERIA (DMR-8018849)*; 12 MONTHS $63,200

PEARCE, ELI M; *POLYMER CHEMICAL STRUCTURE DEFECTS AND THEIR LONG TERM ENVIRONMENTAL EFFECTS - ALIPHATIC POLYAMIDES (DMR-8105613)*; 12 MONTHS $40,100

MERAJVER, SOFIA D, AND WUNDER, STEPHANIE L; *RAMAN SPECTROSCOPIC STUDY OF POLYETHYLENE (DMR-8106231)*; 12 MONTHS $42,000

RENSSELAER POLYTECHNIC INSTITUTE

GLICKSMAN, MARTIN E; *SOLUTE REDISTRIBUTION DURING SOLIDIFICATION (DMR-7721638 A03)*; 12 MONTHS $70,400

ANSELL, GEORGE S; *SOFT MODE PHENOMENA IN IRON-NICKEL-CHROMIUM-CARBON STEELS (DMR-7804065 A03)*; $25,000

WUNDERLICH, BERNHARD; *THE SOLID STATE OF LINEAR MACROMOLECULES (DMR-7815279 A03)*; 12 MONTHS $67,000

HUNTINGTON, HILLARD B; *ELECTROMIGRATION IN METALS (DMR-7925026 A01)*; 12 MONTHS $50,900

DOREMUS, ROBERT H; *MECHANISMS OF THE REACTIONS OF WATER WITH GLASS (DMR-8006091 A01)*; 12 MONTHS $58,000

DUQUETTE, DAVID J, STOLOFF, NORMAN S, AND HUDSON, JOHN B; *HYDROGEN EMBRITTLEMENT ON NICKEL UNDER MONOTONIC AND CYCLIC LOADING (DMR-8009241 A01)*; 4 MONTHS $25,000

MAC CRONE, ROBERT K; *MAGNETIC STUDIES OF TRANSITION METAL IONS IN OXIDE GLASSES (DMR-8011439 A01)*; 12 MONTHS $56,300

GERMAN, RANDALL M, DOREMUS, ROBERT H, AND TOMOZAWA, MINORU; *ACQUISITION OF PRECISION HIGH TEMPERATURE DILATOMETER SYSTEM (DMR-8015579*)*; 12 MONTHS $30,000

TOMOZAWA, MINORU; *ELECTRIC FIELD EFFECT ON MOBILITY OF GLASS CONSTITUENTS (DMR-8100406)*; 12 MONTHS $60,000

KRAUSE, SONJA; *PHASE DIMENSIONS AND GLASS TRANSITION IN BLOCK COPOLYMERS AND POLYMER MIXTURES (DMR-8106107)*; 12 MONTHS $55,500

WRIGHT, ROGER N; *HOT AND 'WARM' DEFORMATION OF AN ORDERED, LIMITED SLIP POLYCRYSTAL (DMR-8106716)*; 6 MONTHS $31,700

HUDSON, JOHN B, DUQUETTE, DAVID J, AND SHATYNSKI, STEPHEN R; *ACQUISITION OF SCANNING AUGER MICROPROBE SYSTEM (DMR-8110530*)*; 12 MONTHS $100,000

STATE UNIVERSITY AT ALBANY

FRISCH, HARRY L; *MACROMOLECULAR ARCHITECTURE AND POLYMERIC SYSTEMS (DMR-7805938 A03)*; 12 MONTHS $69,600

GIBSON, WALTER M; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ATOM LOCATION BY STANDING WAVE X-RAY INTERFEROMETRY (DMR-8017303)*; 6 MONTHS $40,000

STATE UNIVERSITY AT BINGHAMTON

CONSTABLE, JAMES H; *MICROWAVE ABSORPTION MEASUREMENTS IN SOLID HYDROGEN (DMR-8019441)*; 12 MONTHS $13,300

STATE UNIVERSITY AT BUFFALO

REICHERT, JONATHAN F; *MAGNETIC RESONANCE PROPERTIES OF IONS IN NOBLE GAS LIQUIDS AND SOLIDS (DMR-7823973 A02)*; 12 MONTHS $34,700

GASPARINI, FRANCIS M; *HELIUM THREE AND HELIUM FOUR IN THE TWO DIMENSIONAL AND THREE DIMENSIONAL LIMIT (DMR-8007502 A01)*; 12 MONTHS $44,000

HO, JOHN T; *BIREFRINGENCE STUDIES OF PHASE TRANSITIONS IN SMECTIC LIQUID CRYSTALS (DMR-8019985)*; 12 MONTHS $44,100

PRASAD, PARAS N; *PHONON SPECTROSCOPY OF ORGANIC SOLIDS USING A SUBMILLIMETER WAVE LASER (DMR-8108298)*; 12 MONTHS $77,900

STATE UNIVERSITY AT STONY BROOK

ALLEN, PHILIP B; *SUPERCONDUCTIVITY AND RELATED PROPERTIES OF D-BAND METALS (DMR-7900837 A02)*; 12 MONTHS $62,900

MCCOY, BARRY; *MODEL SYSTEMS (DMR-7908556 A02*)*; 12 MONTHS $20,300

JONA, FRANCO P; *NEW ASPECTS OF SURFACE CRYSTALLOGRAPHY BY LEED (DMR-7909691 A02)*; 12 MONTHS $92,000

KAO, YI-HAN; *STUDIES OF PHYSICAL PROPERTIES OF SUPERCONDUCTING WEAK LINKS (DMR-8006093 A01)*; 12 MONTHS $52,000

KAO, YI-HAN; *PHYSICAL PROPERTIES OF SUPERCONDUCTING WEAK LINKS (DMR-8006093 A02)*; $18,000

SEIGLE, LESLIE L; *KINETICS OF DIFFUSIONAL REACTIONS IN COATING SYSTEMS (DMR-8022794)*; 12 MONTHS $65,000

HARTLEY, CRAIG S; *DEFORMATION PROCESSING BY HYDROSTATIC COEXTRUSION (DMR-8023158*)*; 12 MONTHS $81,490

CLAYTON, CLIVE R; *PASSIVITY AND THE BREAKDOWN OF PASSIVITY OF STAINLESS STEELS (DMR-8106499)*; 8 MONTHS $41,300

SYRACUSE UNIVERSITY

LIU, HAO-WEN, AND SCHWARZ, JAMES A; *THE ROLE OF ADSORPTION IN HYDROGEN EMBRITTLEMENT (DMR-8114516)*; 6 MONTHS $34,900

UNIVERSITY OF ROCHESTER

LI, JAMES C; *MECHANICAL PROPERTIES OF AMORPHOUS MATERIALS (DMR-7812807 A02)*; 12 MONTHS $75,500

KENKRE, V M; *THEORETICAL STUDIES OF FRENKEL EXCITON MOTION IN MOLECULAR CRYSTALS (DMR-7919539 A01)*; 12 MONTHS $26,800

SCEATS, MARK G, AND MUENTER, JOHN S; *DYNAMICAL PROCESSES IN CONDENSED MATTER (DMR-7926446 A01)*; 12 MONTHS $28,900

CASTNER, THEODORE G; *MAGNETIC AND ELECTRICAL STUDIES ON DOPED SEMICONDUCTORS ON THE INSULATING SIDE OF THE METAL NON-METAL TRANSITION (DMR-8007625 A01)*; 12 MONTHS $64,000

BURNS, STEPHEN J; *ACQUISITION OF SCANNING AND OPTICAL MICROSCOPES AND CENTRAL DATA PROCESSING EQUIPMENT IN MATERIALS SCIENCE (DMR-8023702)*; 12 MONTHS $65,000

NORTH CAROLINA

DUKE UNIVERSITY

MEYER, HORST; *PROPERTIES OF FLUID HELIUM NEAR CRITICAL POINTS (DMR-8024056)*; 12 MONTHS $85,000

MEYER, HORST; *PROPERTIES OF QUANTUM SOLIDS AND CRITICAL BEHAVIOR OF FLUID HELIUM (DMR-8024056 A01)*; 2 MONTHS $57,000

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

CUCULO, JOHN A; *FLOW-INDUCED CRYSTALLIZATION OF POLYMER MELTS (DMR-7725736 A02)*; 12 MONTHS $13,800

SCHETZINA, J F; *PROPERTIES OF ANISOTROPIC RELAXATION SEMICONDUCTORS (DMR-7911336 A02*)*; 14 MONTHS $47,500

HAASE, DAVID G, AND KLENIN, MARJORIE A; *GLASS-LIKE ORDERING IN QUADRUPOLAR SOLIDS (DMR-7923202 A01)*; 12 MONTHS $50,000

DAVIS, ROBERT F; *KINETICS AND MECHANISMS OF HIGH TEMPERATURE CREEP IN SINTERED ALPHA SILICON CARBIDE (DMR-8022197)*; 12 MONTHS $30,000

DAVIS, ROBERT F; *ACQUISITION OF AN ION MICROPROBE (08R-8107499*)*; 12 MONTHS $110,000

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

ROBERTS, LOUIS D; *METALS AND ALLOYS (DMR-7818916 A02)*; 12 MONTHS $69,000

SILVER, MARVIN; *TIME-DEPENDENT PERCOLATION APPROACH TO DIFFUSION AND DRIFT IN TOPOLOGICALLY DISORDERED MATERIALS (DMR-7920025 A01)*; 12 MONTHS $55,000

OHIO

AMERICAN LIQUID XTAL CHEMICAL CORP

FERGASON, JAMES L; *NEW INSTRUMENTATION FOR TEMPERATURE MEASUREMENT (DMR-8020238*)*; 24 MONTHS $180,000

BATTELLE MEMORIAL INSTITUTE

MARKWORTH, ALAN J; *COMPUTER SIMULATION OF EFFECTS OF HYDROGEN ON MECHANICAL PROPERTIES OF METALS (DMR-7805714 A02)*; 12 MONTHS $53,100

BOWLING GREEN STATE UNIVERSITY

NECKERS, DOUGLAS C; *PHOTOCHEMISTRY OF POLYMERS (DMR-8103100)*; 12 MONTHS $41,600

CASE WESTERN RESERVE UNIVERSITY

HEUER, ARTHUR H; *MICROSTRUCTURAL STUDIES IN ZIRCONIA-BASED CERAMICS (DMR-7719163 A03)*; 12 MONTHS $68,300

HEUER, ARTHUR H; *MICROSTRUCTURAL STUDIES IN ZIRCONIA-BASED CERAMICS (DMR-7719163 A04)*; $7,400

COOPER, ALFRED R; *STRENGTHENING OF GLASS (DMR-7808574 A03)*; 12 MONTHS $79,000

TAYLOR, PHILIP L; *THERMOELECTRIC EFFECTS IN METALS AND ALLOYS (DMR-7822461 A02)*; 12 MONTHS $32,400

COLLINS, ROBERT E; *ATOMIC SCATTERING FROM SOLIDS II (DMR-7901658 A02)*; 12 MONTHS $45,200

JAMIESON, ALEXANDER M, AND SIMHA, ROBERT; *LASER LIGHT SCATTERING IN THE LIQUID AND GLASSY STATES OF ORGANIC POLYMERS (DMR-7906360 A02)*; 12 MONTHS $58,200

CAHAN, B D; *CONTINUING STUDIES OF THE PASSIVATION OF IRON AND FERROUS ALLOYS USING IN SITU OPTICAL AND ELECTRON SPECTROSCOPIC TECHNIQUES (DMR-7909970 A02)*; 12 MONTHS $50,000

DAHM, ARNOLD J; *WIGNER LATTICES IN TWO DIMENSIONS (DMR-7920833 A01)*; 12 MONTHS $55,000

DAHM, ARNOLD J; *WIGNER LATTICES IN TWO DIMENSIONS (DMR-7920833 A02)*; $18,000

BAER, ERIC; *THE MECHANICAL BEHAVIOR OF POLYMER GLASSES FROM HIGHLY COMPATIBLE BLENDS (DMR-8018129)*; 12 MONTHS $43,600

KOENIG, JACK L, AND HEUER, ARTHUR H; *MATERIALS RESEARCH LABORATORY (DMR-8020245)*; 12 MONTHS $640,000

KOENIG, JACK L; *ACQUISITION OF FOURIER TRANSFORM INFRARED SPECTROMETER (DMR-8102983)*; 12 MONTHS $69,500

HALLORAN, JOHN W; *INFLUENCE OF POWDER CHARACTERISTICS UPON SINTERING (DMR-8103066)*; 12 MONTHS $48,600

HILTNER, ANNE; *ACQUISITION OF COMPUTERIZED MECHANICAL TESTING EQUIPMENT (DMR-8105047)*; 12 MONTHS $67,000

BLACKWELL, JOHN; *X-RAY DIFFRACTION STUDIES OF THE STRUCTURE OF ORIENTED POLYMERS (DMR-8107130)*; 12 MONTHS $71,000

LANDO, JEROME B; *THE FORMATION AND CHARACTERIZATION OF POLYMER MULTILAYERS (DMR-8111441)*; 12 MONTHS $75,200

HEHEMANN, ROBERT F, AND TROIANO, ALEXANDER R; *STRESS CORROSION OF STAINLESS STEELS (DMR-8111451)*; 12 MONTHS $66,000

JOHN CARROLL UNIVERSITY

TRIVISONNO, JOSEPH J; *ELECTRON AND PHONON INTERACTIONS IN SOLIDS (DMR-8011978 A01)*; 14 MONTHS $35,300

KENT STATE UNIVERSITY

DE VRIES, ADRIAAN; *X-RAY DIFFRACTION STUDIES OF THE STRUCTURE OF LIQUID CRYSTALS (DMR-7826495 A02)*; 12 MONTHS $47,000

DOANE, J W; *NUCLEAR MAGNETIC RESONANCE STUDIES OF ORIENTATIONAL ORDER IN LIQUID CRYSTALS (DMR-7904393 A02)*; 12 MONTHS $55,000

JOHNSON, DAVID L; *THERMAL AND OPTICAL STUDY OF LIQUID CRYSTAL PHASES AND PHASE TRANSITIONS (DMR-7906330 A02)*; 12 MONTHS $64,900

SAUPE, ALFRED; *PHYSICAL PROPERTIES OF AMPHIPHILIC NEMATIC SYSTEMS (DMR-7907789 A02)*; 12 MONTHS $54,100

OHIO STATE UNIVERSITY

RIGNEY, DAVID A, MEYRICK, GLYN, AND GLAESER, WILLIAM A; *WEAR AND FRICTION OF METALLIC MATERIALS (DMR-7805719 A02)*; 12 MONTHS $83,600

HIRTH, JOHN P; *DUCTILE FRACTURE AND HYDROGEN EMBRITTLEMENT (DMR-7815735 A02)*; 12 MONTHS $69,500

EDWARDS, DAVID O; *LIQUID HELIUM AT LOW TEMPERATURES (DMR-7901073 A02)*; 12 MONTHS $92,000

RAPP, ROBERT A; *HOT CORROSION OF METALS AND ALLOYS BY FUSED SALTS (DMR-7911910 A02)*; 12 MONTHS $104,300

TOUGH, JAMES T; *SUPERFLUID TURBULENCE (DMR-7925089 A01*)*; 12 MONTHS $50,000

WIGEN, PHILIP E; *MAGNETIC RESONANCE IN FERROMAGNETIC DOMAIN WALLS (DMR-8007642 A01)*; 12 MONTHS $53,000

SHEWMON, PAUL G; *ACQUISITION OF A SCANNING AUGER MICROPROBE (DMR-8017923*)*; 12 MONTHS $135,000

HOAGLAND, RICHARD G; *AN ANALYSIS OF MICROSTRUCTURE AND TOUGHNESS OF CERAMICS (DMR-8019340 A01)*; 12 MONTHS $58,900

GARLAND, JAMES C; *LOW TEMPERATURE ELECTRONIC PROPERTIES OF CONDUCTING SOLIDS (DMR-8106121*)*; 12 MONTHS $64,000

SHEWMON, PAUL G, AND MEYRICK, GLYN; *DIFFUSION DRIVEN BOUNDARY MOTION IN ALLOYS (DMR-8106165)*; 18 MONTHS $103,800

GAINES, JAMES R; *A RESONANCE STUDY OF MOLECULAR AND ATOMIC EXCITATIONS IN THE SOLID HYDROGENS (DMR-8106166)*; 12 MONTHS $58,000

GAINES, JAMES R; *ACQUISITION OF A HELIUM LIQUEFIER-RECOVERY SYSTEM (DMR-8109493)*; 24 MONTHS $125,000

TANNER, DAVID B, AND EPSTEIN, ARTHUR J; *CONDUCTING POLYMERS: MAGNETIC, OPTICAL AND TRANSPORT STUDIES (DMR-8110422)*; 12 MONTHS $35,000

READEY, DENNIS W; *GASEOUS AND AQUEOUS CORROSION OF CERAMICS (DMR-8112557)*; 12 MONTHS $67,200

UNIVERSITY OF AKRON MAIN CAMPUS

KENNEDY, JOSEPH P; *CATIONIC POLYMERIZATIONS (DMR-7727618 A03)*; 12 MONTHS $60,400

KENNEDY, JOSEPH P; *CATIONIC POLYMERIZATIONS (DMR-7727618 A04)*; $25,000

FETTERS, LEWIS J, AND KELLEY, FRANK N; *MODEL BRANCHED POLYMERS (DMR-7908299 A02)*; 12 MONTHS $69,300

HARWOOD, H JAMES; *CHARACTERIZATION OF POLYMER STRUCTURE (DMR-8010709 A01)*; 12 MONTHS $72,500

FETTERS, LEWIS J; *ACQUISITION OF AN ULTRAVIOLET-VISIBLE SPECTROPHOTOMETER (DMR-8018616)*; 12 MONTHS $12,000

UNIVERSITY OF CINCINNATI

MARK, JAMES E; *PROPERTIES OF HIGHLY ELASTIC POLYMERIC MATERIALS (DMR-7918903 A01)*; 12 MONTHS $60,000

NEWROCK, RICHARD S; *SUPERCONDUCTING AND NORMAL GRANULAR METALS (DMR-7921989 A01)*; 12 MONTHS $45,000

MARK, JAMES E; *ACQUISITION OF LOW ANGLE LASER LIGHT SCATTERING INSTRUMENTATION (DMR-8113271);* 12 MONTHS $55,000

WRIGHT STATE UNIVERSITY

DADRAS, PARVIZ, AND THOMAS, JOSEPH F; *MODELING OF DEFORMATION INHOMOGENEITIES IN UPSET FORGING (DMR-8015341);* 12 MONTHS $45,300

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

POWELL, RICHARD C; *USE OF LASER SPECTROSCOPY TECHNIQUES FOR INVESTIGATING ENERGY TRANSFER AMONG IONS IN CRYSTALS (DMR-7916151 A01);* 12 MONTHS $27,500

HALLIBURTON, LARRY E; *STRUCTURE AND BEHAVIOR OF POINT DEFECTS IN ELECTRO-OPTIC MATERIALS: NIOBATES, TANTALATES, AND TUNGSTATES (DMR-8020419);* 12 MONTHS $46,000

SIBLEY, WILLIAM A; *OPTICAL PROPERTIES OF IMPURITIES AND RADIATION DEFECTS IN NON-CUBIC CRYSTALS (DMR-8105017);* 12 MONTHS $41,800

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

FRECH, ROGER E; *FAST ION CONDUCTIVITY IN MIXED-CATION SULFATE CRYSTALS (DMR-8001666 A01);* 12 MONTHS $41,100

OREGON

OREGON GRADUATE CENTER

BLAKEMORE, JOHN S; *DEEP-LEVEL IMPURITIES IN SEMICONDUCTORS (DMR-7916454 A01*);* 12 MONTHS $55,000

OREGON STATE UNIVERSITY

CUTLER, MELVIN, AND GARDNER, JOHN A; *ELECTRONIC PROPERTIES OF LIQUID SEMICONDUCTORS (DMR-8023682);* 12 MONTHS $90,000

PORTLAND STATE UNIVERSITY

BRODIE, LAIRD C, AND SEMURA, JACK S; *LIGHT INDUCED ENHANCEMENT OF TRANSIENT HEAT TRANSFER FROM A SOLID INTO LIQUID HELIUM (DMR-8110623*);* 12 MONTHS $36,000

UNIVERSITY OF OREGON - EUGENE

HIGGINS, RICHARD J; *ELECTRONIC PROPERTIES OF MATERIALS (DMR-7823011 A02);* 12 MONTHS $66,000

MC CLURE, JOEL W; *ELECTRONIC PROPERTIES OF CARBON FIBERS (DMR-7921545 A01);* 18 MONTHS $32,600

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

THOMPSON, ANTHONY W; *MICROMECHANISMS OF HYDROGEN CRACKING IN STRUCTURAL MATERIALS (DMR-7800723 A03);* 6 MONTHS $29,400

NAGLE, JOHN F; *SOLID STATE CHEMISTRY AND BIOPHYSICAL MATERIALS (DMR-7810226 A02);* 12 MONTHS $37,900

GRIFFITHS, ROBERT B, AND LANGER, JAMES S; *THERMODYNAMICS AND STATISTICAL MECHANICS OF PHASE TRANSITIONS (DMR-7820394 A02);* 12 MONTHS $72,000

SEKERKA, ROBERT F; *TOWARD A UNIFIED THEORY OF MORPHOLOGICAL STABILITY (DMR-7822462 A02);* 12 MONTHS $77,200

BERGER, LUC; *ELECTRICAL TRANSPORT IN FERROMAGNETIC METALS AND ALLOYS (DMR-7824679 A02);* 12 MONTHS $40,000

RAYNE, JOHN A; *RESEARCH INTO TRANSPORT, THERMAL AND MAGNETIC PROPERTIES OF SOLIDS (DMR-7923355 A01);* 12 MONTHS $52,000

CHUNG, DEBORAH D; *CALORIMETRIC STUDY OF GRAPHITE INTERCALATION COMPOUNDS (DMR-7926242 A01);* 12 MONTHS $52,300

MILNES, ARTHUR G; *DEFECTS AND RECOMBINATION IN CADMIUM TELLURIDE (ECS-8012890*);* 12 MONTHS $17,000

LANGER, JAMES S, AND WILLIAMS, JAMES C; *THE CENTER FOR THE JOINING OF MATERIALS (DMR-8020246);* 12 MONTHS $700,000

AARONSON, HUBERT I; *INTERNATIONAL CONFERENCE ON SOLID-SOLID PHASE TRANSFORMATIONS; PITTSBURGH, PENNSYLVANIA; AUGUST 10-14, 1981 (DMR-8020264);* 12 MONTHS $10,000

CASASSA, EDWARD F, AND BERRY, GUY C; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH: SOLUTIONS OF WATER-SOLUBLE POLYMERS (DMR-8023213*);* 12 MONTHS $31,800

BAUER, CHARLES L; *SYSTEMATIC INVESTIGATION OF GRAIN BOUNDARY STRUCTURE IN THIN FILMS BY TRANSMISSION ELECTRON MICROSCOPY (DMR-8023360);* 16 MONTHS $80,000

LAUGHLIN, DAVID E; *CONTINUOUS AND DISCONTINUOUS PHASE TRANSFORMATIONS IN AGEHARDENING ALLOYS (DMR-8105090);* 14 MONTHS $81,900

MASSALSKI, THADEUS B; *PHASE DIAGRAM BASIS IN THE STUDY OF GLASSY ALLOYS (DMR-8106234);* 15 MONTHS $63,000

FRIEDBERG, SIMEON A; *MAGNETIC INTERACTIONS IN TRANSITION METAL AND RARE EARTH SALTS (DMR-8106491);* 12 MONTHS $79,300

GRIFFITHS, ROBERT B, AND LANGER, JAMES S; *THERMODYNAMICS AND STATISTICAL MECHANICS OF PHASE TRANSITIONS (DMR-8108310);* 12 MONTHS $81,000

LEHIGH UNIVERSITY

CHOU, Y T; *GRAIN BOUNDARY PINNING OF FLUX LINES IN NIOBIUM BICRYSTALS (DMR-7915799 A02);* 12 MONTHS $64,000

BUTLER, SIDNEY R; *INTERFACIAL SEGREGATION IN CERAMIC SYSTEMS (DMR-8006057 A01);* 12 MONTHS $61,600

WATKINS, GEORGE D; *THE ELECTRONIC AND VIBRONIC STRUCTURE OF POINT DEFECTS IN COMPOUND SEMICONDUCTORS USING OPTICAL DETECTION OF MAGNETIC RESONANCE (DMR-8021065);* 12 MONTHS $95,500

NOTIS, MICHAEL R; *INTERFACE MOTION AND STRESS STATE DURING EARLY STAGE DIFFUSION IN BINARY AND TERNARY SYSTEMS (DMR-8023955);* 18 MONTHS $89,700

SMYTH, DONALD M; *EFFECTS OF SINTERING CONDITIONS AND COMPOSITION ON PROPERTIES OF PEROVSKITE-STRUCTURE OXIDES (DMR-8024668);* 12 MONTHS $60,000

MANSON, JOHN A, AND HERTZBERG, RICHARD W; *FATIGUE CRACK PROPAGATION IN GLASSY AND MESOMORPHIC POLYMERS: EFFECTS OF STRUCTURE, COMPOSITION, AND CONDITIONS (DMR-8106489);* 12 MONTHS $76,100

SPERLING, L H; *NEUTRON SCATTERING STUDIES ON DEUTERATED INTERPENETRATING POLYMER NETWORKS (DMR-8106892);* 12 MONTHS $55,400

WILLIAMS, DAVID B; *QUANTITATIVE MICROSTRUCTURAL CHARACTERIZATION OF ALUMINUM-LITHIUM BASED ALLOYS (DMR-8108308);* 12 MONTHS $46,600

PENNSYLVANIA STATE UNIVERSITY

ALLCOCK, HARRY R; *INCLUSION OF MONOMER AND POLYMER MOLECULES IN TUNNEL-CLATHRATE SYSTEMS (DMR-7815741 A02);* 12 MONTHS $31,000

HARRISON, IAN R; *FURTHER STUDIES ON THE NATURE AND UTILIZATION OF CRYSTALLINE POLYMERS (DMR-7825233 A02);* 15 MONTHS $75,300

TSONG, TIEN T; *SINGLE ATOM INTERACTIONS AND SURFACE SEGREGATION OF DILUTE ALLOYS USING ATOM-PROBE AND FIELD ION MICROSCOPY (DMR-7904862 A02*);* 12 MONTHS $47,900

COLEMAN, MICHAEL M, AND PAINTER, PAUL C; *COMPUTER-ASSISTED VIBRATIONAL SPECTROSCOPY OF POLYMERS (DMR-7910841 A02);* 15 MONTHS $83,800

MAYNARD, JULIAN D; *SUPERFLUID HELIUM FOUR RESEARCH (DMR-7927155 A01);* 12 MONTHS $26,000

CHAN, MOSES H; *POSSIBLE QUANTUM CROSSOVER EFFECTS IN PURE FLUIDS NEAR CRITICAL POINTS (DMR-7927279 A02);* 12 MONTHS $46,600

NEWNHAM, ROBERT E, AND CROSS, L E; *ELASTIC HYSTERESIS AND SWITCHING IN FERROIC CRYSTALS (DMR-8010811 A01);* 12 MONTHS $60,500

FONASH, STEPHEN J; *INVESTIGATION OF TRANSPARENT CONDUCTORS FOR APPLICATIONS IN ELECTRONIC DEVICES (DMR-8010854*);* 36 MONTHS $177,122

PANTANO, CARLO G; *SURFACE CHEMISTRY OF MULTICOMPONENT GLASSES (DMR-8018473);* 12 MONTHS $50,500

TRESSLER, RICHARD E; *MECHANICAL PROPERTIES OF DOPED ALUMINA AND MANGANESE-ZINC FERRITES (DMR-8022539);* 12 MONTHS $50,000

FRANKL, DANIEL R; *PHYSICAL ADSORPTION QUANTUM STATES ON SOLID SURFACES (DMR-8023225);* 12 MONTHS $54,700

MACMILLAN, NORMAN H, AND ROY, RUSTUM; *ACQUISITION OF NEW MATERIALS PROCESSING EQUIPMENT (DMR-8023464*);* 12 MONTHS $40,000

BRADT, RICHARD C; *INTERNATIONAL SYMPOSIUM ON THE APPLICATION OF FRACTURE MECHANICS TO CERAMICS, UNIVERSITY PARK, PENNSYLVANIA, JULY 15-17, 1981 (DMR-8024332);* 14 MONTHS $4,900

NEWNHAM, ROBERT E; *FIFTH INTERNATIONAL CONFERENCE ON FERROELECTRICITY, UNIVERSITY PARK, PENNSYLVANIA, AUGUST 17-22, 1981 (DMR-8024400);* 14 MONTHS $10,000

MC KINSTRY, HERBERT A; *ACQUISITION OF COMPUTER CONTROL EQUIPMENT FOR MEASUREMENT OF THERMAL EXPANSION BY X-RAY DIFFRACTION (DMR-8100152);* 12 MONTHS $5,800

TSONG, TIEN T; *UPGRADING OF THE ENERGY FOCUSED TIME-OF-FLIGHT ATOM-PROBE FIELD ION MICROSCOPE (DMR-8106155);* 12 MONTHS $74,900

STUBICAN, VLADIMIR S; *STRUCTURE AND PROPERTIES OF ZIRCONIA ALLOY SYSTEMS (DMR-8107143);* 12 MONTHS $44,600

LANNIN, JEFFREY S; *RAMAN SCATTERING IN AMORPHOUS AND LIQUID SEMICONDUCTORS (DMR-8109033);* 12 MONTHS $47,000

RINDONE, GUY E, AND PANTANO, CARLO G; *SIXTH CONFERENCE ON GLASS SCIENCE ON GLASS MICROSTRUCTURE SURFACE & BULK, STATE COLLEGE, PENNSYLVANIA, JULY 29-31, '81 (DMR-8109216);* 12 MONTHS $5,000

SPEAR, KARL E; *MODELING THE CHEMICAL VAPOR DEPOSITION (CVD) AND TRANSPORT (CVT) OF REFRACTORY MATERIALS (DMR-8109260);* 12 MONTHS $58,800

TEMPLE UNIVERSITY

MIHALISIN, TED W, AND CROW, JACK E; *EXPERIMENTAL STUDIES OF MIXED VALENCE, KONDO AND ASPHERICAL COULOMB SCATTERING IN RARE EARTH INTERMETALLICS (DMR-7911153 A01);* 12 MONTHS $63,000

GUNTON, JAMES D, AND TAHIR-KHELI, RAZA; *DYNAMICS OF FIRST AND SECOND ORDER PHASE TRANSITIONS (DMR-8013700);* 12 MONTHS $57,000

LABES, MORTIMER M; *REACTIONS IN LIQUID CRYSTALLINE PHASES (DMR-8107142);* 12 MONTHS $52,600

UNIVERSITY OF PENNSYLVANIA

SOVEN, PAUL; *THEORETICAL RESEARCH IN SOLID STATE PHYSICS (DMR-7723420 A02);* 12 MONTHS $11,000

WORRELL, WAYNE L; *HIGH TEMPERATURE THERMODYNAMIC AND KINETIC INVESTIGATIONS OF THE FORMATION OF TRANSITION METAL-NOBLE METAL COMPOUNDS (DMR-7805937 A03)*; $25,000

POPE, DAVID P, AND VITEK, VACLAV; *EFFECTS OF DISLOCATION DISSOCIATION AND DISLOCATION CORE STRUCTURE ON PLASTIC FLOW IN PURE METALS AND ORDERED ALLOYS (DMR-7905556 A03)*; 12 MONTHS $84,600

CALLEN, HERBERT B, HARRIS, A B, AND LUBENSKY, T C; *STATISTICAL MECHANICS AND THEORY OF SOLIDS (DMR-7910153 A01)*; 12 MONTHS $86,000

WHITE, DAVID; *LABORATORY FOR RESEARCH ON THE STRUCTURE OF MATTER (DMR-7923647 A02)*; 12 MONTHS $2,940,000

WHITE, DAVID; *LABORATORY FOR RESEARCH ON THE STRUCTURE OF MATTER (DMR-7923647 A03)*; $60,000

GRAHAM, WILLIAM R; *HIGH RESOLUTION MICROSCOPY OF SURFACE INTERACTIONS (DMR-8009056 A01)*; 12 MONTHS $60,600

HEEGER, ALAN J; *MAGNETIC RESONANCE STUDIES OF SOLITON FORMATION IN POLYACETYLENE (DMR-8009822)*; 12 MONTHS $49,900

GUSTAFSSON, TORGNY; *HIGH RESOLUTION STRUCTURAL STUDIES OF SURFACES (DMR-8015302)*; 12 MONTHS $66,400

GRIFFIN, JOHN A; *CRITICAL PHENOMENA IN RANDOM SYSTEMS (DMR-8015351 A01)*; 12 MONTHS $56,000

LAIRD, CAMPBELL, AND FARRINGTON, GREGORY C; *THE PHYSICAL AND ELECTROCHEMICAL BASIS OF FATIGUE DAMAGE (DMR-8019914)*; 12 MONTHS $143,500

LAIRD, CAMPBELL; *ACQUISITION OF A SCANNING TRANSMISSION ELECTRON MICROSCOPE (DMR-8020744)*; 12 MONTHS $50,000

MACDIARMID, ALAN G; *ORGANIC METALS: NEW TYPES OF ORGANIC METALS DERIVED FROM POLYACETYLENE (DMR-8022870)*; 12 MONTHS $49,000

EGAMI, TAKESHI; *LOCAL ATOMIC STRUCTURE OF AMORPHOUS ALLOYS (DMR-8100405)*; 10 MONTHS $65,100

PLUMMER, E WARD; *VIBRATIONAL MODES AT A SURFACE (DMR-8109261)*; 12 MONTHS $90,000

PLUMMER, E WARD; *VIBRATIONAL MODES AT A SURFACE II (DMR-8109261 A01)*; $72,400

UNIVERSITY OF PITTSBURGH

DE ARDO, ANTHONY J; *PHYSICAL METALLURGY OF HOT DEFORMATION USING COPPER SINGLE CRYSTALS (DMR-7800567 A02)*; 6 MONTHS $16,400

STEWART, G ALEC; *HEAT CAPACITY STUDIES OF ADSORBED HEAVY NOBLE GASES ON ADSORBED EXFOLIATED GRAPHITES (DMR-7820603 A02)*; 12 MONTHS $38,000

JASNOW, DAVID M; *CRITICAL PHENOMENA AND PHASE TRANSITIONS (DMR-8002416 A01)*; 12 MONTHS $28,500

SOFFA, WILLIAM A; *THE STRENGTH AND FATIGUE OF PRECIPITATION HARDENED ALLOYS STRENGTHENED BY MODULATED STRUCTURES (DMR-8005989 A01)*; 12 MONTHS $53,700

GOLDBURG, WALTER I; *LIGHT SCATTERING IN FLUIDS (DMR-8015349)*; 12 MONTHS $92,000

SOFFA, WILLIAM A, AND BRENNER, S S; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ATOM PROBE FIELD ION MICROSCOPY STUDIES OF CONTINUOUS TRANSFORMATIONS IN ALLOYS (DMR-8022225*)*; 12 MONTHS $75,400

MC GRUER, JAMES N, CHOYKE, W J, TOWNSEND, JOHN R, AND SPITZNAGEL, J A; *MICROSTRUCTURES EVOLVING DURING ION IMPLANTATION (DMR-8102968)*; 12 MONTHS $250,000

BLACHERE, JEAN R; *ACQUISITION OF A SCANNING ELECTRON MICROSCOPE-ELECTRON MICROPROBE (DMR-8106170)*; 12 MONTHS $75,000

MAGILL, JOSEPH H; *CONFORMATION OF MACROMOLECULES IN THE CONDENSED STATE (DMR-8115089)*; 12 MONTHS $49,000

RHODE ISLAND

BROWN UNIVERSITY

QUINN, JOHN J; *THEORETICAL STUDY OF ELECTRON-ELECTRON INTERACTIONS AMONG THE CONDUCTION ELECTRONS IN SOLIDS (DMR-7808556 A03)*; 6 MONTHS $32,500

GERRITSEN, HENDRIK J, AND NURMIKKO, ARTO V; *PICOSECOND SPECTROSCOPY APPLIED TO THE STUDY OF SEMICONDUCTOR INTERFACES (DMR-7909701 A02)*; 12 MONTHS $60,000

STILES, PHILLIP J; *SURFACE QUANTIZATION AND ELECTRON-ELECTRON INTERACTIONS (DMR-7913787 A01)*; 12 MONTHS $70,100

HOUGHTON, ANTHONY; *SOLID STATE AND MANY-BODY THEORY (DMR-7920321 A01)*; 12 MONTHS $35,000

HELLER, GERALD S; *MATERIALS RESEARCH LABORATORY (DMR-7923257 A01)*; 12 MONTHS $1,800,000

WOLD, AARON; *PREPARATION AND PROPERTIES OF NEW TRANSITION METAL CHALCOGENIDES (DMR-7923695 A01)*; 12 MONTHS $46,700

ESTRUP, PEDER J; *SURFACE RECONSTRUCTION OF TRANSITION METALS (DMR-7924396 A01)*; 12 MONTHS $75,000

ASARO, ROBERT J; *FUNDAMENTAL STUDIES OF LOCALIZED PLASTIC DEFORMATION (DMR-7926190 A01)*; 12 MONTHS $32,400

BRAY, PHILIP J; *NUCLEAR MAGNETIC RESONANCE STUDIES OF THE STRUCTURE OF GLASSES (DMR-8004488 A01)*; 12 MONTHS $65,000

PELCOVITS, ROBERT A; *CRITICAL PHENOMENA IN THIN FILMS, AMORPHOUS SYSTEMS AND METALS (DMR-8005879 A01)*; 12 MONTHS $14,500

ELBAUM, CHARLES, AND MARIS, HUMPHREY J; *HIGH FREQUENCY ULTRASONIC WAVE AND PHONON PROPAGATION IN CONDENSED MATTER (DMR-8011284 A01*)*; 12 MONTHS $110,000

GURLAND, JOSEPH; *INTERNATIONAL CONFERENCE ON THE SCIENCE OF HARD MATERIALS; AUGUST 23-28, 1981; JACKSON HOLE, WYOMING (DMR-8019948*)*; 16 MONTHS $8,000

QUINN, JOHN J; *FOURTH INTERNATIONAL CONFERENCE ON ELECTRONIC PROPERTIES OF TWO DIMENSIONAL SYSTEMS, NEW LONDON, NEW HAMPSHIRE, AUGUST 24 - 28, 1981 (DMR-8024112)*; 18 MONTHS $5,000

SEIDEL, GEORGE M; *EXPERIMENTS ON ATOMIC HYDROGEN BELOW 1 DEGREE KELVIN (DMR-8105238)*; 6 MONTHS $30,000

GORDON RESEARCH CONFERENCES

CRUICKSHANK, ALEXANDER M, AND MORRISON, JAMES A; *1982 GORDON RESEARCH CONFERENCE ON ORIENTATIONAL DISORDER IN CRYSTALS; VENTURA, CALIFORNIA, JANUARY 11-15, 1982 (DMR-8108311)*; 9 MONTHS $4,000

UNIVERSITY OF RHODE ISLAND

BONNER, JILL C; *MOSTLY ONE DIMENSIONAL MAGNETISM (DMR-8010819 A01)*; 12 MONTHS $26,000

NORTHBY, JAN A; *CHARGED HELIUM DROPLET BEAMS (DMR-8024366)*; 12 MONTHS $55,000

NUNES, ANTHONY C; *A NEUTRON SCATTERING STUDY OF FERROFLUID PARTICLES (DMR-8024662)*; 12 MONTHS $40,000

SOUTH CAROLINA

CLEMSON UNIVERSITY

SKOVE, MALCOLM J, AND STILLWELL, E P; *RESEARCH IN METALLIC WHISKERS (DMR-8008351 A01)*; 12 MONTHS $40,000

SKOVE, MALCOLM J, AND STILLWELL, E P; *RESEARCH IN METALLIC WHISKERS (DMR-8008351 A02)*; $7,000

TENNESSEE

OAK RIDGE NATIONAL LABORATORY

KOEHLER, WALTER C, AND HENDRICKS, ROBERT W; *OPERATION OF A NATIONAL CENTER FOR SMALL-ANGLE SCATTERING RESEARCH AT THE OAK RIDGE NATIONAL LABORATORY (DMR-8020167)*; 12 MONTHS $430,000

KOEHLER, WALTER C, AND HENDRICKS, ROBERT W; *THE OPERATION OF THE NATIONAL CENTER FOR SMALL-ANGLE SCATTERING RESEARCH (DMR-8020167 A01)*; $50,000

BATES, J B; *CONFERENCE ON FAST IONIC TRANSPORT IN SOLID ELECTROLYTES; GATLINBURG, TENNESSEE; MAY 18-22, 1981 (DMR-8022578)*; 6 MONTHS $7,000

UNIVERSITY OF TENNESSEE AT KNOXVILLE

FELLERS, JOHN F, AND WHITE, JAMES L; *ORIENTATION, MORPHOLOGY, AND MECHANICAL PROPERTIES OF POLYMERIC GLASSES (DMR-8026051)*; 12 MONTHS $56,000

VANDERBILT UNIVERSITY

WERT, JAMES J; *THE ROLE OF STRUCTURE IN THE WEAR PROCESS (DMR-8017301 A01)*; 12 MONTHS $53,900

TEXAS

RICE UNIVERSITY

ESTLE, THOMAS L, AND DODDS, STANLEY A; *MUON SPIN ROTATION STUDIES OF DEFECTS, DIFFUSION AND TRAPPING IN SOLIDS (DMR-7909223 A01)*; 12 MONTHS $90,000

TRAMMELL, GEORGE T, AND HANNON, JAMES P; *THEORETICAL STUDIES IN GAMMA-RAY AND NEUTRON DIFFRACTION (DMR-8015706)*; 12 MONTHS $41,500

MCLELLAN, REX B; *THERMODYNAMICS AND KINETICS OF INTERSTITIAL SOLID SOLUTION (DMR-8106133)*; 18 MONTHS $84,200

TEXAS A & M UNIVERSITY

NAUGLE, DONALD G; *EXPERIMENTAL STUDIES OF SUPERCONDUCTIVITY IN AMORPHOUS METALS (DMR-7825003 A02)*; 12 MONTHS $60,000

KIRK, WILEY P; *MILLIKELVIN STUDIES OF SOLID HELIUM-3 MAGNETIC EFFECTS AND SUPERCONDUCTING AMORPHOUS TRANSITION METALS (DMR-8011384 A01)*; 12 MONTHS $50,000

PARPIA, JEEVAK M; *HYDRODYNAMIC AND MAGNETIC PROPERTIES OF LIQUID HELIUM-3 IN CONFINED GEOMETRIES (DMR-8018381)*; 12 MONTHS $37,000

CLEARFIELD, ABRAHAM; *THE PREPARATION AND CHARACTERIZATION OF SUPERION CONDUCTORS OF GROUP (IV) TRIPHOSPHATES AND SILICOPHOSPHATES (DMR-8025184)*; 12 MONTHS $65,900

UNIV OF TEXAS AT AUSTIN

DE WETTE, FREDERICK W; *CALCULATIONS OF SURFACE PROPERTIES OF CRYSTALS (DMR-7810909 A03)*; 12 MONTHS $34,100

THOMPSON, JAMES C; *THE METAL-NONMETAL TRANSITION IN LIQUID MIXTURES (DMR-7821744 A02)*; 12 MONTHS $38,100

GAVENDA, J D; *ANOMALOUS SOUND PROPAGATION IN METALS (DMR-7825232 A02)*; 12 MONTHS $37,400

SWINNEY, HARRY L; *INSTABILITIES, TURBULENCE, AND CRITICAL PHENOMENA IN FLUID FLOWS (MEA-7909585 A01*)*; 12 MONTHS $30,000

ERSKINE, JAMES L; *EXPERIMENTAL STUDIES OF INTRINSIC SURFACE ELECTRONIC PROPERTIES (DMR-7923639 A01)*; 12 MONTHS $42,900

PAUL, DONALD R; *GAS SORPTION AND TRANSPORT IN GLASSY POLYMERS (DMR-8001665 A01)*; 15 MONTHS $57,100

KLEINMAN, LEONARD; *BULK AND SURFACE ELECTRONIC STRUCTURE OF SOLIDS (DMR-8019518)*; 12 MONTHS $52,300

ERSKINE, JAMES L; *ACQUISITION OF A HIGH RESOLUTION ELECTRON ENERGY LOSS SPECTROMETER (DMR-8106049*)*; 12 MONTHS $58,200

MARCUS, HARRIS L, AND WALSER, RODGER M; *ACQUISITION OF A RESEARCH GRADE ION IMPLANTATION INSTRUMENT (DMR-8113088)*; 12 MONTHS $90,000

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

CHU, CHING-WU; *HIGH PRESSURE PHASES OF COPPER CHLORIDE AND HIGH TRANSITION TEMPERATURE SUPERCONDUCTORS (DMR-7908486 A02)*; 12 MONTHS $76,000

MC CAULEY, JOSEPH L; *VORTEX CREATION AND ANNIHILATION IN THIN HELIUM-FOUR FILMS (DMR-8003421 A01)*; 12 MONTHS $10,500

RABALAIS, J WAYNE; *CHEMICAL REACTIONS OF ACTIVE ION BEAMS WITH SURFACES (DMR-8007036 A01*)*; 16 MONTHS $99,400

CHU, CHING-WU; *ACQUISITION OF EQUIPMENT FOR THE STUDY OF SOLIDS UNDER HIGH PRESSURE AND THE SEARCH FOR MATERIALS WITH DESIRED AND NOVEL PROPERTIES (DMR-8110504)*; 12 MONTHS $32,200

UTAH

UNIVERSITY OF UTAH

WANG, C H; *RAYLEIGH-BRILLOUIN LIGHT SCATTERING OF SEGMENTAL MOTION AND STRUCTURAL RELAXATION OF POLYMER LIQUIDS AND SOLIDS (DMR-7912457 A02)*; 15 MONTHS $75,300

VIRKAR, ANIL V; *FRACTURE MECHANISMS IN BRITTLE MATERIALS (DMR-7912668 A02)*; 14 MONTHS $49,600

ROSENBERGER, FRANZ; *CRYSTAL GROWTH FROM VAPORS (DMR-7913183 A02)*; 12 MONTHS $41,700

SYMKO, OREST G; *PROPERTIES OF DILUTE MAGNETIC ALLOYS AT VERY LOW TEMPERATURES AND NUCLEAR COOLING (DMR-7916243 A01*)*; 12 MONTHS $41,500

DE VRIES, K L; *MOLECULAR AND MACROSCOPIC INVESTIGATION OF FRACTURE IN POLYMERS (DMR-7925390 A01)*; 12 MONTHS $60,000

LYMAN, DONALD J; *POLYMERIC IMPLANT MATERIALS (DMR-8005499 A01)*; 12 MONTHS $87,500

BOYD, RICHARD H; *RELAXATION MECHANISMS IN CRYSTALLINE POLYMERS (DMR-8018326)*; 12 MONTHS $55,000

PLICHTA, MARK R; *THE EFFECTS OF INTERPHASE BOUNDARY STRUCTURE OF THE KINETICS OF PRECIPITATE COARSENING (DMR-8022797)*; 12 MONTHS $59,600

LUTY, FRITZ; *LOCALIZED AND COLLECTIVE EXCITATION AND ORDERING PROCESSES IN IONIC AND MOLECULAR CRYSTALS (DMR-8105332)*; 10 MONTHS $89,000

PHILLIPS, PAUL J; *CRYSTALLIZATION OF POLYMERS AT ELEVATED PRESSURES (DMR-8106033)*; 12 MONTHS $45,300

MATTIS, DANIEL C, AND SUTHERLAND, BILL; *THEORY OF CONDENSED MATTER PHYSICS (DMR-8106223)*; 12 MONTHS $39,500

VIRGINIA

COLLEGE OF WILLIAM AND MARY

KOSSLER, W J, AND PETZINGER, KENNETH G; *MUON PRECESSION IN SOLIDS (DMR-8007059 A01)*; 12 MONTHS $63,700

UNIVERSITY OF VIRGINIA

BRYAN, ROBERT F; *CRYSTAL STRUCTURE AND LIQUID CRYSTALLINITY (DMR-7819884 A03)*; 12 MONTHS $53,800

DEAVER, BASCOM S; *EXPERIMENTS USING WEAKLY LINKED SUPERCONDUCTORS (DMR-7825791 A02)*; 12 MONTHS $51,000

RUVALDS, JOHN; *INTERACTING EXCITATIONS IN CONDENSED MATTER (DMR-8019245)*; 12 MONTHS $43,000

COLEMAN, ROBERT V; *ELECTRONIC PROPERTIES OF LOWER DIMENSIONAL METALS AND ALLOYS IN HIGH MAGNETIC FIELDS (DMR-8106095*)*; 13 MONTHS $55,000

FOWLER, MICHAEL; *THEORY OF SPIN CHAINS (DMR-8106108)*; 12 MONTHS $11,800

JOHNSON, ROBERT A; *DEFECT INTERACTIONS IN METALS (DMR-8106889)*; 18 MONTHS $83,700

VIRGINIA COMMONWEALTH UNIVERSITY

SATTERTHWAITE, CAMERON B; *LOW TEMPERATURE STUDIES OF METAL HYDRIDES (DMR-8108293)*; 13 MONTHS $62,000

VIRGINIA POLYTECHNIC INSTITUTE

RITTER, ALFRED L; *SPECTROMETER FOR INVESTIGATING THE ELECTRONIC STRUCTURE OF THIN FILMS (DMR-8011970)*; 12 MONTHS $40,800

MC GRATH, JAMES E, AND WARD, THOMAS C; *SYNTHESIS AND CHARACTERIZATION OF BLOCK COPOLYMERS (DMR-8022545)*; 9 MONTHS $31,200

WILKES, GARTH L; *DOMAIN STRUCTURE IN SEGMENTED POLYURETHANES: THERMAL MECHANICAL STABILITY AND RELATIONSHIP TO CHEMICAL STRUCTURE (DMR-8106118)*; 18 MONTHS $59,800

WASHINGTON

BOEING ENGINEERING AND CONSTRUCTION

LYTLE, FARREL W; *ATOMIC AND ELECTRONIC STRUCTURE OF GLASS BY X-RAY TECHNIQUES (DMR-8013706 A01)*; 12 MONTHS $86,000

UNIVERSITY OF WASHINGTON

DASH, JAY G, AND VILCHES, OSCAR E; *MONOLAYER PHYSICS (DMR-7822697 A02)*; 12 MONTHS $140,000

GOUTERMAN, MARTIN; *PHOTORELAXATION AND PHOTOVOLTAIC PROPERTIES OF PORPHYRIN FILMS (DMR-7823958 A02)*; 12 MONTHS $83,000

INGALLS, ROBERT L; *GAMMA-RAY AND X-RAY SPECTROSCOPY OF SOLIDS UNDER PRESSURE (DMR-7824995 A02)*; 12 MONTHS $62,600

REHR, JOHN J; *TOPICS IN THE THEORY OF SURFACES AND APERIODIC MATERIALS (DMR-7907238 A02)*; 12 MONTHS $24,900

SCHICK, MICHAEL, THOULESS, DAVID J, AND RIEDEL, EBERHARD K; *THEORETICAL RESEARCH IN STATISTICAL PHYSICS (DMR-7920785 A01)*; 12 MONTHS $162,000

FAIN, SAMUEL C; *STRUCTURE OF PHYSICALLY ADSORBED LAYERS (DMR-8006334 A01)*; 12 MONTHS $67,000

STERN, EDWARD A; *EXTENDED X-RAY ABSORPTION FINE STRUCTURE (DMR-8022221)*; 12 MONTHS $116,000

VILCHES, OSCAR E, AND FORTSON, NORVAL; *THERMAL PROPERTIES OF SPIN POLARIZED QUANTUM SYSTEMS (DMR-8022239)*; 12 MONTHS $69,500

WHITTEMORE, O J, AND HALSEY, GEORGE D; *INITIAL SINTERING AND PHYSICAL ADSORPTION (DMR-8111111)*; 12 MONTHS $55,000

WASHINGTON STATE UNIVERSITY

FARMER, BARRY L; *ENERGETICS OF POLYMER CRYSTALLIZATION (DMR-7720604 A02)*; $10,000

HIPPS, KERRY W; *INELASTIC ELECTRON TUNNELING SPECTROSCOPY APPLIED TO TRANSITION METAL COMPLEXES (DMR-7820251 A03)*; 12 MONTHS $40,000

DUVALL, GEORGE E; *ROLE OF DISLOCATIONS IN DYNAMIC FAILURE OF LIF UNDER SHOCK CONDITIONS (DMR-7906122 A02)*; 12 MONTHS $46,000

WEST VIRGINIA

WEST VIRGINIA UNIVERSITY

COOPER, BERNARD R; *THEORY OF ANISOTROPIC MAGNETIC PROPERTIES AND ASSOCIATED LATTICE BEHAVIOR IN ACTINIDE AND RARE EARTH MATERIALS (DMR-7907069 A02)*; 12 MONTHS $40,000

SEEHRA, MOHINDAR S; *MAGNETIC, OPTICAL AND DIELECTRIC STUDIES OF TRANSITIONMETAL-OXIDES (DMR-8106630)*; 12 MONTHS $33,000

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

CHANG, Y AUSTIN; *THERMODYNAMICS AND PHASE RELATIONSHIPS OF METAL-SULFUR SYSTEMS (DMR-7804066 A03)*; 12 MONTHS $134,500

WEBB, M B; *SURFACE STRUCTURE, LATTICE DYNAMICS AND ADATOM INTERACTIONS (DMR-7816650 A02)*; 12 MONTHS $65,600

FERRY, JOHN D; *MOLECULAR MOTIONS IN POLYMER SOLUTIONS, GELS, AND NETWORKS (DMR-7816954 A02)*; 12 MONTHS $54,000

YEN, WILLIAM M; *SPECTROSCOPY OF MAGNETICALLY ORDERED MATERIALS (DMR-7820070 A02)*; 12 MONTHS $70,000

WEAVER, JOHN H; *PHOTOELECTRON SPECTROSCOPY STUDIES OF TRANSITION METAL CARBIDES USING SYNCHROTRON RADIATION (DMR-7821080 A02)*; 12 MONTHS $51,800

MARGARITONDO, GIORGIO; *THE MICROSCOPIC PROPERTIES OF SEMICONDUCTORSEMICONDUCTOR INTERFACES (DMR-7822905 A02)*; 12 MONTHS $42,700

LAGALLY, MAX G; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH: CRYSTALLOGRAPHIC DETERMINATION OF LIMITATIONS TO ORDER IN SURFACES AND OVERLAYERS (DMR-7825754 A02*)*; 12 MONTHS $72,200

LIN, CHUN C; *BAND STRUCTURE OF SOLIDS AND POINT DEFECTS IN CRYSTALS (DMR-7827575 A02)*; 12 MONTHS $50,000

HUBER, DAVID L; *THEORETICAL STUDIES OF THE MAGNETIC PROPERTIES OF SOLIDS (DMR-7904154 A02)*; 12 MONTHS $38,200

WRIGHT, JOHN C; *SOLID STATE CHEMISTRY OF DEFECT SITES IN FLUORITE CRYSTALS (DMR-7906788 A02)*; 12 MONTHS $42,500

CHANG, Y AUSTIN, AND MARSHALL, DENNIS; *INDUSTRY/ UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: PHASE INVESTIGATION OF LEAD-TIN-CALCIUM ALLOYS (DMR-7908333 A01*)*; 12 MONTHS $34,100

YU, HYUK; *SMALL ANGLE NEUTRON SCATTERING OF RUBBER NETWORKS (DMR-7908652 A02)*; 12 MONTHS $57,600

BRUCH, LUDWIG W; *THEORY OF PHYSICAL ADSORPTION (DMR-7920400 A01)*; 12 MONTHS $30,000

TAYLOR, JAMES W, MARGARITONDO, GIORGIO, AND FISHER, GALEH B; *GAS PHASE AND ULTRAHIGH VACUUM SPECTROSCOPY ON A WINDOWLESS BEAM LINE (DMR-7924555 A01)*; 12 MONTHS $220,000

SCHRAG, JOHN L; *MOTIONS AND CONFORMATIONAL PROPERTIES OF MACROMOLECULES IN SOLUTION (DMR-7925020 A01*)*; 12 MONTHS $51,300

COOPER, STUART L, AND YU, HYUK; *SMALL-ANGLE X-RAY SCATTERING FACILITY (DMR-8002679 A01)*; $15,000

ROWE, EDNOR M, AND PRUETT, CHARLES H; *ACQUISITION AND IMPLEMENTATION OF SOFT X-RAY BEAMLINES ON THE ALADDIN STORAGE RING AT THE SYNCHROTRON RADIATION CENTER (DMR-8013703)*; 12 MONTHS $232,600

ROWE, EDNOR M; *OPERATION OF ALADDIN (DMR-8020164)*; 12 MONTHS $1,750,000

ROWE, EDNOR M; *OPERATION OF ALADDIN (DMR-8020164 A01)*; $34,000

COOPER, STUART L; *INTERMOLECULAR BONDING AND MICROPHASE SEPARATION IN POLYURETHANE BLOCK POLYMERS (DMR-8106888)*; 12 MONTHS $52,100

UNIVERSITY OF WISCONSIN-MILWAUKEE

GREENLER, ROBERT; *ADSORPTION AND REACTIONS ON METAL SURFACES (DMR-8010710 A01)*; 12 MONTHS $46,500

TONG, S Y; *PHOTOEMISSION STUDIES OF ADSORBATES ON DISORDERED AND STEPPED SURFACES (DMR-8101903)*; 12 MONTHS $55,000

COMPUTER RESEARCH

ARIZONA

UNIVERSITY OF ARIZONA

GRISWOLD, RALPH E; *HIGH-LEVEL PROGRAMMING LANGUAGE FACILITIES FOR DATA STRUCTURE PROCESSING (MCS-8101916)*; 12 MONTHS $55,155

FRASER, CHRISTOPH W; *GENERALIZING COMMAND LANGUAGES AND UTILITIES (MCS-8102298)*; 24 MONTHS $59,906

HANSON, DAVID R; *COMPUTER SCIENCE RESEARCH EQUIPMENT (MCS-8105764*)*; 12 MONTHS $158,278

BUDD, TIMOTHY A; *SOFTWARE TESTING (MCS-8109547)*; 12 MONTHS $70,303

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

MEAD, CARVER A; *DESIGN OF SILICON STRUCTURES (MCS-7816367 A02*)*; 12 MONTHS $61,437

SEITZ, CHARLES L; *SECOND CALTECH CONFERENCE ON VLSI, JANUARY 1981 (ECS-8025817*)*; 6 MONTHS $7,300

RAND CORPORATION

HEARN, ANTHONY C; *CSNET PHONENET OPERATIONS AND MMDF DEVELOPMENT (MCS-8109331)*; 12 MONTHS $63,905

SAN DIEGO STATE UNIVERSITY

BECK, LELAND L; *DISTRIBUTION-DEPENDENT DYNAMIC STORAGE ALLOCATION TECHNIQUES (MCS-8019973)*; 24 MONTHS $52,000

SAN JOSE STATE UNIVERSITY

FOSTER, LESLIE V; *GENERALIZATIONS OF LAGUERRE'S METHOD: LOWER ORDER METHODS (MCS-8101926)*; 6 MONTHS $10,197

SRI INTERNATIONAL

SHOSTAK, ROBERT E, AND MOORE, J STROTHE; *MECHANIZING THE MATHEMATICS OF COMPUTER PROGRAM ANALYSIS (MCS-7904081 A02)*; 12 MONTHS $70,217

LAMPORT, LESLIE; *THE SPECIFICATION AND VERIFICATION OF CONCURRENT PROGRAMS (MCS-8104459)*; 12 MONTHS $94,965

STANFORD UNIVERSITY

KNUTH, DONALD E; *ANALYSIS OF ALGORITHMS (MCS-7723738 A03)*; 12 MONTHS $194,429

GOLUB, GENE H, AND WILKINSON, JAMES H; *NUMERICAL LINEAR ALGEBRA (MCS-7811985 A02)*; $12,626

GOLUB, GENE H, AND WILKINSON, JAMES H; *NUMERICAL LINEAR ALGEBRA (MCS-7811985 A04)*; 12 MONTHS $81,667

MCCLUSKEY, EDWARD J; *RESEARCH ON RELIABLE COMPUTERS (MCS-7904864 A02)*; 12 MONTHS $80,726

MCCARTHY, JOHN; *THE MECHANIZATION OF FORMAL REASONING (MCS-7905998 A02)*; 12 MONTHS $104,329

IGLEHART, DONALD L; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH: DISCRETE EVENT METHODS FOR COMPUTER SYSTEM SIMULATION (MCS-7909139 A04*)*; 12 MONTHS $78,749

MANNA, ZOHAR; *A DEDUCTIVE APPROACH TO PROGRAM SYNTHESIS (MCS-7908495 A01)*; 12 MONTHS $66,637

HELLMAN, MARTIN E; *DATA SECURITY (ECS-7916161 A03*)*; 10 MONTHS $14,200

DANTZIG, GEORGE B, COTTLE, RICHARD W, AND MURRAY, WALTER; *COMPUTER OPTIMIZATION OF COMPLEX SYSTEMS (MCS-7926009 A01)*; 12 MONTHS $115,375

GOODMAN, JOSEPH W, AND MACOVSKI, ALBERT; *MULTIPLEXED HOLOGRAPHIC RECONSTRUCTION METHODS FOR THREE-DIMENSIONAL STRUCTURES (ECS-7926433 A01*)*; 12 MONTHS $23,139

SUPPES, PATRICK; *INTERACTIVE THEOREM PROVING (MCS-8011975 A01)*; 12 MONTHS $89,754

CHOWNING, JOHN M; *INTELLIGENT SYSTEMS FOR THE ANALYSIS OF DIGITIZED ACOUSTIC SIGNALS (MCS-8012476 A01*)*; 12 MONTHS $39,281

ULLMAN, JEFFREY D; *DATABASE THEORY (MCS-8012907 A01)*; 12 MONTHS $52,925

OWICKI, SUSAN S, AND LUCKHAM, DAVID C; *SPECIFICATION METHODS FOR PARALLEL PROGRAMS (MCS-8015336)*; 12 MONTHS $63,423

FEIGENBAUM, EDWARD A, BUCHANAN, BRUCE G, KEDES, LAWRENCE H, AND BRUTLAG, DOUGLAS L; *MOLGEN: A COMPUTER SCIENCE APPLICATION TO MOLECULAR BIOLOGY (ECS-8016247 A01*)*; 12 MONTHS $39,946

MCCARTHY, JOHN; *AN APPLICATION OF PROOF THEORY TO COMPUTING (MCS-8104873)*; 24 MONTHS $73,348

MCCARTHY, JOHN; *BASIC RESEARCH IN ARTIFICIAL INTELLIGENCE (MCS-8104877)*; 12 MONTHS $71,019

ULLMAN, JEFFREY D; *ACQUISITION OF COMPUTER SCIENCE RESEARCH EQUIPMENT (MCS-8106189*)*; 12 MONTHS $150,000

MANNA, ZOHAR; *TEMPORAL VERIFICATION AND SYNTHESIS OF CONCURRENT PROGRAMS (MCS-8111536)*; 12 MONTHS $44,492

GOLUB, GENE H; *WORKSHOP ON COMPUTATIONAL PROBLEMS IN COMPLEX ANALYSIS, PALO ALTO, CALIFORNIA, AUGUST 31 – SEPTEMBER 4, 1981 (MCS-8113489*)*; 6 MONTHS $2,600

SYSTEMS CONTROL INC

GREEN, C CORDELL; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: INTELLIGENT SYSTEMS FOR THE ANALYSIS OF DIGITIZED ACOUSTIC SIGNALS (MCS-7925282 A01*)*; 12 MONTHS $39,683

UNIVERSITY OF CALIFORNIA, BERKELEY

SMITH, ALAN J; *RESEARCH ON AUTOMATIC FILE SYSTEM DESIGN AND OPTIMIZATION (MCS-7728439 A02)*; 12 MONTHS $45,200

LAWLER, EUGENE L; *COMBINATORIAL ALGORITHMS (MCS-7890054 A01)*; 24 MONTHS $112,000

BLUM, MANUEL; *COMPLEXITY THEORY AND THE STUDY OF AUTOMATA IN TWO AND THREE DIMENSIONAL SPACE (MCS-7903767 A02)*; 12 MONTHS $42,000

ZADEH, LOTFI A; *A THEORY OF APPROXIMATE REASONING (MCS-7906543 A02*)*; 12 MONTHS $15,750

GRAHAM, SUSAN L; *PROGRAMMING LANGUAGE IMPLEMENTATION (MCS-8005144 A01)*; 12 MONTHS $66,375

HARRISON, MICHAEL A; *CRYPTOGRAPHY AND THEORY OF COMPUTATION (MCS-8012716 A01)*; 12 MONTHS $82,217

FERRARI, DOMENICO; *THE DYNAMIC BEHAVIOR OF COMPUTER SYSTEMS (MCS-8012900)*; 24 MONTHS $106,500

KARP, RICHARD M; *COMBINATORIAL ALGORITHMS AND COMPUTATIONAL COMPLEXITY (MCS-8105917)*; 12 MONTHS $61,919

UNIVERSITY OF CALIFORNIA, IRVINE

LUEKER, GEORGE S; *THE ANALYSIS OF SEARCHING PROBLEMS (MCS-7904997 A01)*; 24 MONTHS $59,364

FREEMAN, PETER A; *SOFTWARE CONSTRUCTION USING COMPONENTS (ISS-8107718)*; 12 MONTHS $48,839

FELDMAN, JULIAN; *COMPUTER SCIENCE RESEARCH EQUIPMENT (MCS-8105911*)*; 12 MONTHS $150,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

LIGGETT, THOMAS M; *STATISTICS AND INFINITE PARTICLE SYSTEMS (MCS-8002732 A02*)*; 12 MONTHS $13,700

UNIVERSITY OF CALIFORNIA, SAN DIEGO

HU, TE CHIANG; *THEORY AND COMPUTATION OF DISCRETE OPTIMIZATION (MCS-8003362 A01)*; $28,651

HU, TE CHIANG; *THEORY AND COMPUTATION OF DISCRETE OPTIMIZATION (MCS-8003362 A02)*; 12 MONTHS $26,543

DYMOND, PATRICK; *COMPLEXITY THEORY OF SYNCHRONOUS PARALLEL COMPUTATION (MCS-8111098)*; 24 MONTHS $28,984

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

MARTINEZ, HUGO M; *COMPUTER AIDED STUDIES OF EVOLUTIONARY SYSTEMS (MCS-8018242)*; 24 MONTHS $18,098

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

BOOK, RONALD V; *COMPUTATIONAL COMPLEXITY AND FORMAL LANGUAGES (MCS-8011979 A01)*; $11,859

BOOK, RONALD V; *COMPUTATIONAL COMPLEXITY AND FORMAL LANGUAGES (MCS-8011979 A02)*; 12 MONTHS $26,600

BOOK, RONALD V, AND SQUIER, CRAIG; *ALGORITHMIC PROBLEMS IN GROUPS AND SEMIGROUPS (MCS-8116337)*; 12 MONTHS $14,015

UNIVERSITY OF SOUTHERN CALIFORNIA

BALZER, ROBERT M, AND WILE, DAVID; *SUPERVISORY CONTROL OF TRANSFORMATIONAL IMPLEMENTATION SYSTEMS (MCS-7918792 A01*)*; 12 MONTHS $218,250

ADLEMAN, LEONARD; *COMPUTATION COMPLEXITY AND ITS RELATIONSHIP TO NUMBER THEORY (MCS-8022533)*; 12 MONTHS $39,235

ADLEMAN, LEONARD; *COMPUTATION COMPLEXITY AND ITS RELATIONSHIP TO NUMBER THEORY (MCS-8022533 A01)*; 12 MONTHS $44,186

BREUER, MELVIN A, AND PARKER, ALICE C; *COMPUTER SCIENCE AND COMPUTER ENGINEERING RESEARCH EQUIPMENT (MCS-8105901)*; 12 MONTHS $50,507

COLORADO

COLORADO STATE UNIVERSITY

MCCORMICK, STEPHEN F, AND TAYLOR, GERALD D; *A NUMERICAL INVESTIGATION OF SURFACE FITTING AND MESH REFINEMENT TECHNIQUES (MCS-8017056 A01)*; 12 MONTHS $47,564

MUELLER, ROBERT A; *SPECIFICATION AND AUTOMATED SYNTHESIS OF MICRO-CODE (MCS-8107481)*; 24 MONTHS $61,380

UNIVERSITY OF COLORADO AT BOULDER

EHRENFEUCHT, ANDRZEJ; *NEW DIRECTIONS IN MATHEMATICAL THEORY OF LANGUAGES (MCS-7904838 A01)*; 24 MONTHS $37,475

OSTERWEIL, LEON, AND FOSDICK, LLOYD D; *TOOLPACK: UNIVERSITY OF COLORADO PARTICIPATION (MCS-8000017 A01)*; 12 MONTHS $104,735

GUSTAFSON, KARL E; *INDUSTRY-UNIVERSITY COOP RES: COMPUTATIONAL STUDIES AND SOFTWARE DEVELOPMENT IN HYDRODYNAMICS, CONCENTRATION DIFFUSION EQUATIONS, AND CHEMICAL KINETICS (MCS-8012290*)*; 12 MONTHS $20,348

WAITE, WILLIAM M; *CODE GENERATION TOOLS AND TECHNIQUES (MCS-8108063)*; 12 MONTHS $55,350

BYRD, RICHARD H; *TRUST REGION METHODS FOR MINIMIZATION (MCS-8115475)*; 12 MONTHS $36,155

CONNECTICUT

HASKINS LABORATORIES INC

COOPER, FRANKLIN S; *VERIFICATION OF SYLLABLE HYPOTHESES IN AUTOMATIC PHONETIC ANALYSIS OF SPOKEN ENGLISH (MCS-7916177 A01)*; 12 MONTHS $114,931

UNIVERSITY OF CONNECTICUT

BOOTH, TAYLOR L; *DESIGN OF OPTIMIZED COMPUTATIONAL SYSTEMS USING PROBABILISTIC PERFORMANCE MODELLING TECHNIQUES (MCS-7903955 A01)*; 24 MONTHS $98,004

JORDAN, DAVID; *THE PERFORMANCE OF DECENTRALIZED SOFTWARE (MCS-8007466 A01)*; 12 MONTHS $33,469

WESLEYAN UNIVERSITY

COMPTON, KEVIN J; *COMPUTATIONAL COMPLEXITY OF ASYMPTOTIC PROBABILITIES (MCS-8105211)*; 12 MONTHS $8,794

YALE UNIVERSITY

ANGLUIN, DANA C; *ALGORITHMS FOR INDUCTIVE INFERENCE (MCS-8002447 A01)*; $16,583

MCDERMOTT, DREW V; *THE REPRESENTATION OF SPATIAL INFORMATION FOR PROBLEM SOLVING AND UNDERSTANDING (MCS-8013710 A01)*; 12 MONTHS $41,801

HARTIGAN, JOHN A; *CLUSTERING ALGORITHMS (MCS-8102280*)*; 12 MONTHS $37,706

SCHULTZ, MARTIN H, AND EISENSTAT, STANLEY; *EFFICIENT SOLUTION OF LARGE SPARSE SYSTEMS OF LINEAR EQUATIONS (MCS-8104874)*; 12 MONTHS $24,998

GUSFIELD, DANIEL; *ALGORITHMS FOR DYNAMIC COMBINATORIAL COMPUTING (MCS-8105894)*; 24 MONTHS $44,354

SCHULTZ, MARTIN H, SCHANK, ROGER C, AND PERLIS, ALAN J; *AN ATTACHED PROCESSOR SYSTEMS LABORATORY (MCS-8106181)*; 12 MONTHS $574,152

FISHER, JOSEPH A; *THE EXTENSION AND APPLICATION OF GLOBAL COMPACTION TECHNIQUES FOR HORIZONTAL SCIENTIFIC CODE (MCS-8107646)*; 24 MONTHS $94,599

FISCHER, MICHAEL J; *ADVANCED COMPUTING STRUCTURES (MCS-8116678)*; 12 MONTHS $62,794

DELAWARE

UNIVERSITY OF DELAWARE

FARBER, DAVID J; *CSNET PHONENET OPERATIONS AND MMDF DEVELOPMENT (MCS-8109320)*; 12 MONTHS $182,838

FARBER, DAVID J; *CSNET PHONENET OPERATIONS AND MMDF DEVELOPMENT (MCS-8109320 A01)*; $64,692

DISTRICT OF COLUMBIA

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

SMITH, JAMES R; *INTERNATIONAL CONFERENCE ON PLANNING, ARCHITECTURE, AND COMPUTERS (PARC 81); WASHINGTON, D. C., OCTOBER 6-8, 1981 (MCS-8112863*)*; 12 MONTHS $5,000

FLORIDA

FLORIDA STATE UNIVERSITY

HAWKES, LOIS W; *APPLICATION OF SIMPLIFIED PG DECODING TECHNIQUES TO INFORMATION RETRIEVAL (MCS-8017047)*; 18 MONTHS $13,304

GEORGIA

GEORGIA INSTITUTE OF TECHNOLGY MAIN CAMPUS

DEMILLO, RICHARD A, KING, KIMBERLY N, AND MILLER, RAYMOND E; *MODELS OF COMPUTATION AND ALGORITHMS (MCS-8103608)*; 12 MONTHS $86,986

UNIVERSITY OF GEORGIA

POMERANCE, CARL; *NUMBER THEORY: PRIMALITY AND FACTORIZATION (MCS-8002694 A01*)*; 24 MONTHS $11,380

ILLINOIS

ILLINOIS INSTITUTE OF TECHNOLOGY

WOJCIK, ANTHONY S; *DESIGN OF MULTIPLE-VALUED DIGITAL SYSTEMS (MCS-7901689 A01)*; 24 MONTHS $77,104

CHRISTOPHER, THOMAS W, AND EVENS, MARTHA W; *DISTRIBUTED COMPILERS FOR DISTRIBUTED SYSTEMS (MCS-8004114 A01)*; 12 MONTHS $78,465

NORTHERN ILLINOIS UNIVERSITY

OVERBEEK, ROSS A; *TOPICS IN AUTOMATED THEOREM PROVING (MCS-7903870 A02)*; 12 MONTHS $31,750

WUNDERLICH, MARVIN; *FACTORING LARGE COMPOSITE NUMBERS ON PARALLEL MACHINES (MCS-8103725*)*; 24 MONTHS $19,946

NORTHWESTERN UNIVERSITY

HENSCHEN, LAWRENCE J; *AUTOMATED ThEOREM PROVING (MCS-7913252 A01)*; 12 MONTHS $51,819

BIXBY, ROBERT E; *COMBINATORIAL INVESTIGATIONS IN MATHEMATICAL PROGRAMMING (MCS-8104881)*; 24 MONTHS $73,788

SUDBOROUGH, IVAN H; *APPLICATIONS OF AUTOMATA THEORY TO COMPUTATIONAL COMPLEXITY (MCS-8109280)*; 24 MONTHS $64,653

UNIVERSITY OF CHICAGO

KAPLANSKY, IRVING; *GROUPS, RINGS, AND HOMOLOGICAL ALGEBRA (MCS-7904469 A04*)*; $4,120

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

PLESS, VERA; *COMPUTER ALGORITHMS IN FINITE GROUPS AND COMBINATORIAL STRUCTURES (MCS-7914986 A01*)*; 12 MONTHS $8,000

UNIVERSITY OF ILLINOIS AT URBANA

PLAISTED, DAVID A, AND DERSHOWITZ, NACHUM; *TERM-REWRITING SYSTEMS AND COMPUTER-AIDED DEDUCTION (MCS-7904897 A01)*; 24 MONTHS $134,830

MICHALSKI, R S; *STUDIES IN COMPUTER INDUCTION AND PLAUSIBLE INFERENCE (MCS-7906614 A02)*; 12 MONTHS $38,551

KUCK, DAVID, AND LAWRIE, DUNCAN H; *COMPUTER SYSTEM ORGANIZATION (MCS-8001561 A01)*; 12 MONTHS $137,413

KUCK, DAVID, AND LAWRIE, DUNCAN H; *SOFTWARE STUDIES FOR PARALLEL MEMORIES, MULTIPROCESSORS, AND VIRTUAL MEMORIES (MCS-8100512)*; 12 MONTHS $114,250

PREPARATA, FRANCO P; *PARALLEL COMPUTATION AND THE iMPACT OF VLSI (MCS-8105552)*; 12 MONTHS $36,022

KUBITZ, WILLIAM J; *ACQUISITION OF COMPUTER SCIENCE RESEARCH EQUIPMENT (MCS-8105759*)*; 12 MONTHS $85,900

KUCK, DAVID; *A COMPUTER AND SOFTWARE SYSTEMS DESIGN LABORATORY (MCS-8105896)*; 12 MONTHS $833,089

LIU, CHUNG L; *COMBINATORIAL ALGORITHMS (MCS-8107647)*; 12 MONTHS $37,330

MUROGA, SABURO; *LOGICAL DESIGN THEORY FOR INTEGRATED CIRCUITS (MCS-8108505)*; 24 MONTHS $96,488

ROBERTSON, JAMES E; *DIGITAL COMPUTER ARITHMETIC (MCS-8109491)*; 24 MONTHS $91,340

KAMIN, SAMUEL N; *THE PRAGMATICS OF FINAL DATA TYPE SPECIFICATIONS (MCS-8110087)*; 12 MONTHS $54,714

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

WAND, MITCHELL, AND FRIEDMAN, DANIEL P; *ALGEBRAIC AND LOGICAL SEMANTICS OF COMPUTATION (MCS-7904183 A01)*; 24 MONTHS $172,437

PURDOM, PAUL W, AND BROWN, CYNTHIA; *AVERAGE TIME ANALYSIS OF ALGORITHMS FOR NP COMPLETE PROBLEMS (MCS-7906110 A01)*; 24 MONTHS $65,164

HOFSTADTER, DOUGLAS R; *SEEK-WHENCE: A PROJECT IN PATTERN UNDERSTANDING (MCS-8009201 A01)*; 12 MONTHS $40,003

FILMAN, ROBERT E; *META-REASONING IN KNOWLEDGE REPRESENTATION (MCS-8102291)*; 24 MONTHS $57,991

INDIVIDUAL AWARD

JOSEPH, DEBORAH A; *COMPUTER SCIENCE POSTDOCTORAL FELLOWSHIP (MCS-8114605)*; 24 MONTHS $48,000

PURDUE UNIVERSITY

O DONNELL, MICHAEL J, AND HOFFMANN, CHRISTOPH; *A UNIFORM THEORY FOR IMPLEMENTATIONS OF DESCRIPTIVE LANGUAGES (MCS-7801812 A01)*; 24 MONTHS $160,659

SMITH, CARL; *AUTOMATIC PROGRAM SYNTHESIS (MCS-7903912 A01)*; 12 MONTHS $10,785

RICE, JOHN R; *TEMPLATE PROCESSORS AND TOOLPACK EVALUATION (MCS-7926310 A01)*; 12 MONTHS $43,555

SMITH, CARL; *WORKSHOP ON RECURSION THEORETIC ASPECTS OF COMPUTER SCIENCE AT PURDUE UNIVERSITY DURING MAY 1981 (MCS-8007360 A01)*; $906

DENNING, DOROTHY E; *DATA SECURITY (MCS-8015484)*; 24 MONTHS $60,000

SNYDER, LAWRENCE; *SECURE COMPUTATION (MCS-8108139)*; 12 MONTHS $36,497

COMER, DOUGLAS E, AND DENNING, PETER J; *CSNET PROTOCOL DEVELOPMENT (MCS-8109322)*; 12 MONTHS $78,615

GANNON, DENNIS; *ALGORITHMS AND ARCHITECTURES FOR HIGHLY PARALLEL SOLUTIONS TO PARTIAL DIFFERENTIAL EQUATIONS (MCS-8109513)*; 12 MONTHS $65,753

TICHY, WALTER F; *RESEARCH ON CONFIGURATION MANAGEMENT FOR PROGRAMMED SYSTEMS (MCS-8109513)*; 24 MONTHS $40,754

FU, KING-SUN; *WORKSHOP ON STRUCTURAL AND SYNTACTIC PATTERN RECOGNITION (ECS-8109620*)*; 12 MONTHS $11,600

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

KAFURA, DENNIS G; *A COMPREHENSIVE STUDY OF SOFTWARE METRICS FOR LARGE-SCALE SYSTEMS (MCS-7902970 A02)*; 24 MONTHS $79,527

KENTUCKY

UNIVERSITY OF KENTUCKY

FAIRWEATHER, GRAEME; *BOUNDARY METHODS FOR ELLIPTIC BOUNDARY VALUE PROBLEMS (MCS-8102295*)*; 24 MONTHS $13,912

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

DELZELL, CHARLES N; *HILBERT'S 16TH AND 17TH PROBLEMS (MCS-8102744*)*; 24 MONTHS $5,826

TULANE UNIVERSITY

HASSELL, JOHNETTE; *THE DEVELOPMENT AND EVALUATION OF COMPUTER PROGRAM TESTING METHODS (MCS-8103617)*; 24 MONTHS $25,048

MARYLAND

JOHNS HOPKINS UNIVERSITY

KOSARAJU, S RAO; *APPLICATIONS OF BASIC THEORY OF COMPUTING (MCS-7905163 A02)*; 12 MONTHS $41,405

UNIVERSITY OF MARYLAND, COLLEGE PARK

STEWART, JAMES M, AND MUNN, ROBERT J; *THE DEVELOPMENT OF A GENERALIZED TRANSPORTABLE SOFTWARE PACKAGE FOR THE SOLUTION AND REFINEMENT OF MOLECULAR STRUCTURES BY SINGLE CRYSTAL DIFFRACTION TECHNIQUES (CHE-7920801 A01*)*; 12 MONTHS $19,000

ROSENFELD, AZRIEL, AND O'LEARY, DIANNE P; *REPRESENTATION AND CONTROL IN COMPUTER VISION: MULTILEVEL RELAXATION APPROACHES (MCS-7923422 A01*)*; 12 MONTHS $108,000

WEISER, MARK; *INVESTIGATION OF PROGRAMMING AIDS AND PROGRAM METRICS BASED ON PROGRAM SLICES (MCS-8018294)*; 24 MONTHS $65,459

YAO, S B; *DESIGN, MODELING AND PERFORMANCE OF DATA BASE SYSTEM (MCS-8107047)*; 12 MONTHS $50,186

YAO, S B; *DATABASE DESIGN AND OPTIMIZATION (MCS-8107047 A01*)*; $81,201

ROSENFELD, AZRIEL; *WORKSHOP ON HUMAN AND MACHINE VISION; AUGUST 17, 18, 19, 1981; CHICAGO, ILLINOIS (MCS-8108445)*; 6 MONTHS $20,000

OLVER, FRANK W; *ASYMPTOTIC AND NUMERICAL APPROXIMATIONS (MCS-8111735*)*; 36 MONTHS $5,000

MASSACHUSETTS

BOSTON UNIVERSITY

LEVIN, LEONID A; *ALGORITHMIC COMPLEXITY THEORY AND APPLICATIONS (MCS-8104311)*; 24 MONTHS $34,955

HARVARD UNIVERSITY

BERNSTEIN, PHILIP A, AND GOODMAN, NATHAN; *FRAMEWORKS FOR DATABASE SYSTEM IMPLEMENTATION PROBLEMS (MCS-7907762 A01)*; 24 MONTHS $109,450

HUBER, PETER J; *INTERACTIVE GRAPHICAL ANALYSIS OF MULTIDIMENSIONAL DATA (MCS-7908685 A02*)*; 12 MONTHS $6,500

CLARKE, EDMUND M; *DESIGN AND VERIFICATION OF CONCURRENT SYSTEMS (MCS-8105553)*; 24 MONTHS $127,300

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

KUH, EDWIN, AND WELSCH, ROY E; *THE RELIABILITY OF ECONOMIC MODELS (MCS-7726902 A05*)*; 12 MONTHS $150,432

KAPLOW, ROY; *NEW INTERACTIVE COMPUTER-USE STRATEGIES BASED ON THE ENHANCED-INPUT TERMINAL SYSTEM (EITS) (MCS-7804755 A02*)*; 12 MONTHS $90,000

SUSSMAN, GERALD J, AND HEWITT, CARL E; *COMPUTER AIDED EVOLUTIONARY DESIGN FOR SOFTWARE ENGINEERING (MCS-7912179 A01*)*; 12 MONTHS $110,000

DENNIS, JACK B; *DATA FLOW COMPUTER ARCHITECTURE (MCS-7915255 A01)*; 12 MONTHS $81,891

GALLAGER, ROBERT G; *THE DYNAMICS OF DATA NETWORK RESEARCH (ECS-7919880 A01*)*; 12 MONTHS $31,000

RICHARDS, WHITMAN A; *NATURAL COMPUTATION AND CONTROL (29S-7923110 A01*)*; 12 MONTHS $121,972

KLEMA, VIRGINIA; *EXPERIMENTAL COMPUTING IN NUMERICAL AND STATISTICAL ANALYSIS (MCS-8006936)*; 24 MONTHS $165,076

RIVEST, RONALD L; *CONCRETE COMPUTATIONAL COMPLEXITY (MCS-8006938)*; 12 MONTHS $85,323

MEYER, ALBERT R; *LOGIC OF PROGRAMS AND COMPUTATIONAL COMPLEXITY (MCS-8010707 A01)*; 12 MONTHS $109,184

SIPSER, MICHAEL; *COMPUTATIONAL COMPLEXITY AND ALGORITHMS (MCS-8105555)*; 24 MONTHS $34,834

KANNON, RAVINDRAN; *COMPUTATIONAL COMPLEXITY OF NUMERICAL ALGORITHMS (MCS-8105557)*; 24 MONTHS $33,208

FREDKIN, EDWARD; *CONFERENCE ON PHYSICS OF COMPUTATION; BOSTON, MASSACHUSETTS; MAY 6-8, 1981 (MCS-8108755)*; 6 MONTHS $3,000

NORTHEASTERN UNIVERSITY

LECHNER, ROBERT J; *HARMONIC ANALYSIS OF LOGIC FUNCTIONS I: ENCODED PROGRAMMABLE LOGIC ARRAYS (MCS-8108685*)*; 12 MONTHS $31,728

TUFTS UNIVERSITY

IMMERMAN, NEIL; *FIRST ORDER EXPRESSIBILITY AS A MEASURE OF COMPUTATIONAL COMPLEXITY (MCS-8105754)*; 24 MONTHS $27,567

UNIVERSITY OF MASSACHUSETTS, AMHERST

STONE, HAROLD S; *CONTROL OF DISTRIBUTED PROCESSES (MCS-7805295 A01*)*; 24 MONTHS $73,802

RISEMAN, EDWARD M; *A COMPUTER SYSTEM FOR VISUAL INTERPRETATION OF NATURAL SCENES (MCS-7918209 A02)*; 12 MONTHS $124,600

LESSER, VICTOR R; *COOPERATIVE DISTRIBUTED PROBLEM-SOLVING (MCS-8006327)*; 12 MONTHS $79,000

CLARKE, LORI A; *A PARTITION ANALYSIS METHOD TO DEMONSTRATE PROGRAM RELIABILITY (MCS-8104202)*; 12 MONTHS $38,992

STANKOVIC, JOHN A; *DECENTRALIZED CONTROL OF JOB AND PROCESS SCHEDULING IN DISTRIBUTED PROCESSING SYSTEMS (MCS-8104203)*; 24 MONTHS $38,799

WORCESTER POLYTECHNIC INSTITUTE

DAVIS, PAUL W; *REGIONAL CONFERENCE ON GRAPH ALGORITHMS; WORCESTER, MASSACHUSETTS; JUNE 15-19, 1981 (MCS-8106173*)*; 6 MONTHS $9,072

MICHIGAN

MICHIGAN STATE UNIVERSITY

PAGE, CARL V; *A STUDY OF AUGMENTED RELAXATION LABELING FOR PARALLEL IMAGE UNDERSTANDING (MCS-8004126 A01)*; 12 MONTHS $35,116

UNIVERSITY OF MICHIGAN-ANN ARBOR

BURKS, ARTHUR W, AND HOLLAND, JOHN H; *FORMAL AND INTERDISCIPLINARY STUDIES OF ADAPTIVE AND COMPUTING SYSTEMS 1979-1982 (MCS-7826016 A02*)*; 12 MONTHS $60,000

ATKINS, DANIEL E; *HIGH-PERFORMANCE, APPLICATION-DIRECTED ARITHMETIC PROCESSORS (MCS-8007298 A01)*; 12 MONTHS $82,236

MUDGE, TREVOR; *SPARSE LINEAR EQUATION SOLVER (MCS-8009315)*; 24 MONTHS $149,013

ROUNDS, WILLIAM C; *FORMAL SEMANTICS OF DISTRIBUTED COMPUTATION (MCS-8102286)*; 12 MONTHS $22,645

VOLZ, RICHARD A; *COMPUTER SCIENCE RESEARCH EQUIPMENT (MCS-8106193*)*; 12 MONTHS $77,987

WAYNE STATE UNIVERSITY

JAIN, RAMESH; *DYNAMIC MOTION ANALYSIS (MCS-8100148)*; 24 MONTHS $67,183

MINNESOTA

UNIVERSITY OF MINNESOTA

SAHNI, SARTAJ K; *ALGORITHMIC STUDY OF COMBINATORIAL PROBLEMS (MCS-8005856 A02)*; 12 MONTHS $53,191

SCHNEIDER, G MICHAEL; *AN EXPERIMENTAL INVESTIGATION OF NOVICE/EXPERT BEHAVIOR IN PROGRAM COMPREHENSION (MCS-8016549 A01)*; 12 MONTHS $26,263

ROSEN, J B; *GLOBAL OPTIMIZATION METHODS FOR LINEARLY CONSTRAINED LARGE-SCALE PROBLEMS (MCS-8101214)*; 12 MONTHS $44,954

IBARRA, OSCAR H; *COMPLEXITY OF COMPUTATIONS (MCS-8102853)*; 24 MONTHS $78,020

THOMPSON, WILLIAM B; *DISPARITY ANALYSIS OF IMAGE SEQUENCES (MCS-8105215)*; 12 MONTHS $55,124

MISSOURI

WASHINGTON UNIVERSITY

FRANKLIN, MARK A; *CONTINUOUS SYSTEMS SIMULATION ON MULTIPROCESSOR SYSTEMS (MCS-7890731 A02*)*; 12 MONTHS $117,148

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

EMBLEY, DAVID W; *A FORMS-BASED NONPROCEDURAL PROGRAMMING SYSTEM (MCS-8105563)*; 24 MONTHS $50,628

NEW HAMPSHIRE

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

FREUDER, EUGENE C; *CONSTRAINT SATISFACTION: RELATING THE STRUCTURE OF THE PROBLEM TO THE STRUCTURE OF THE SOLUTION (MCS-8003907 A01)*; 12 MONTHS $12,301

HAREL, DOV; *DYNAMIC DATA STRUCTURES AND THEIR ALGORITHMS (MCS-8105325)*; 24 MONTHS $25,196

NEW JERSEY

NEW JERSEY INSTITUTE OF TECHNOLOGY

TUROFF, MURRAY; *COMPUTER BASED CONFERENCING (MCS-7800519 A03)*; 12 MONTHS $203,274

PRINCETON UNIVERSITY

LIPTON, RICHARD J; *COMPUTATIONAL COMPLEXITY (MCS-8023806 A01)*; 12 MONTHS $38,046

DOBKIN, DAVID P; *UNIFYING THE STUDY OF GEOMETRIC ALGORITHMS (MCS-8114207)*; 24 MONTHS $107,739

RUTGERS UNIVERSITY-BUSCH CAMPUS

YASUHARA, ANN; *COMPUTABILITY ON TERM ALGEBRAS (MCS-8009534 A01)*; 12 MONTHS $19,572

DOWD, MARTIN J; *HIGH LEVEL COMPLEXITY THEORY (MCS-8019004)*; 24 MONTHS $20,912

LAFUE, GILLES; *AUTOMATIC CHECKING OF SEMANTIC INTEGRITY IN DESIGN DATABASES (MCS-8110100)*; 24 MONTHS $45,091

RUTGERS UNIVERSITY

STATMAN, RICHARD; *SYNTAX AND SEMANTICS OF THE TYPED LAMBDA-CALCULUS (MCS-7923199 A01)*; 24 MONTHS $18,972

MITCHELL, TOM M; *IMPROVING PROBLEM SOLVING STRATEGIES BY EXPERIMENTATION (MCS-8008889)*; 24 MONTHS $87,836

MINSKY, NAFTALY, AND LOCKMAN, ABE D; *PROTECTION OF INFORMATION SYSTEMS (MCS-8009811 A01)*; 12 MONTHS $71,284

NEW MEXICO

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

STAVELY, ALLAN M; *ANALYSIS TOOLS FOR DESIGN-LEVEL ASSESSMENT OF SOFTWARE SYSTEMS (MCS-8107756)*; 24 MONTHS $54,358

UNIVERSITY OF NEW MEXICO

CROWLEY, CHARLES; *OPERATING SYSTEM STRUCTURE AND PORTABILITY (MCS-8102296)*; 24 MONTHS $55,032

STEINBERG, STANLY; *SYMBOLIC METHODS IN PARTIAL DIFFERENTIAL EQUATIONS (MCS-8102683*)*; 24 MONTHS $19,972

NEW YORK

BROOKLYN COLLEGE

MCALOON, KENNETH; *ARITHMETIC THEORIES AND INCOMPLETENESS PHENOMENA (MCS-8102854*)*; 24 MONTHS $24,534

COLUMBIA UNIVERSITY

YEMINI, YECHIAM; *COOPERATIVE DISTRIBUTED COMPUTING IN COMPUTER COMMUNICATION NETWORKS (MCS-8110319)*; 12 MONTHS $96,202

CORNELL UNIVERSITY

WOLF, EDWARD D; *NATIONAL RESEARCH AND RESOURCE FACILITY FOR SUBMICRON STRUCTURES (ECS-7709688 A04*)*; 15 MONTHS $30,000

HARTMANIS, JURIS, AND KELEMEN, CHARLES F; *COMPUTATIONAL COMPLEXITY (MCS-7800418 A07)*; $12,200

DEMERS, ALAN J, AND DONAHUE, JAMES E; *VERIFYING AND IMPLEMENTING RUSSELL (MCS-7901048 A01)*; 24 MONTHS $88,897

HOPCROFT, JOHN; *THEORY OF ALGORITHMS (MCS-8101220)*; 12 MONTHS $75,045

FEJER, PETER A; *RECURSION THEORY (MCS-8103451*)*; 12 MONTHS $9,800

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

HARTMANIS, JURIS; *COMPUTATIONAL COMPLEXITY (MCS-7800418 A06)*; 12 MONTHS $80,968

CONWAY, RICHARD W; *DIAGNOSTIC FACILITIES AND INTERACTIVE PROGRAM DEVELOPMENT SYSTEMS (MCS-8003504 A01)*; 12 MONTHS $80,484

CONSTABLE, ROBERT L, AND DEMERS, ALAN J; *ON LOGICS FOR PROGRAM DEVELOPMENT (MCS-8003349*)*; 12 MONTHS $173,705

GRIES, DAVID J, AND SCHNEIDER, FRED B; *PROGRAMMING METHODOLOGY (MCS-8103605)*; 12 MONTHS $107,617

CONSTABLE, ROBERT L; *THE METAMATHEMATICS OF PROGRAMMING LOGICS (MCS-8104018)*; 12 MONTHS $14,234

ASPVALL, BENGT; *EFFICIENT ALGORITHMS (MCS-8105556)*; 24 MONTHS $33,326

CONSTABLE, ROBERT L, CONWAY, RICHARD W, GRIES, DAVID J, AND DEMERS, ALAN J; *A LABORATORY FOR EXPERIMENTS ON THE PROGRAMMING PROCESS (MCS-8105763)*; 12 MONTHS $551,797

INSTITUTE OF ELECTRICAL & ELECTRONIC ENGRS INC

GERSHO, ALLEN; *IEEE COMMUNICATIONS SECURITY WORKSHOP; AUGUST 24-26, 1981; SANTA BARBARA, CALIFORNIA (ECS-8117145*)*; 6 MONTHS $6,400

INTERNATIONAL BUSINESS MACHINES CORPORATION-T J WATSON RESEARCH CENTER

KOZEN, DEXTER C; *WORKSHOP ON LOGICS OF PROGRAMS TO BE HELD AT THE I B M THOMAS J. WATSON RESEARCH CENTER IN YORKTOWN HEIGHTS, NEW YORK IN APRIL 1981 (MCS-8019346)*; 12 MONTHS $9,353

LE MOYNE COLLEGE

MURRAY, NEIL V; *AN INVESTIGATION INTO THE DESIGN AND IMPLEMENTATION OF A PRAWITZ-BASED THEOREM PROVER (MCS-8104478)*; 24 MONTHS $28,124

NEW YORK UNIVERSITY

WIDLUND, OLOF; *FAST METHODS FOR THE SOLUTION OF LARGE FINITE DIFFERENCE AND FINITE ELEMENT SYSTEMS OF EQUATIONS (MCS-7902882 A02)*; 12 MONTHS $41,800

SCHWARTZ, JACOB T; *THE VLSI SOFTWARE ARCHITECTURES LABORATORY ORIENTED TOWARD LARGE-SCALE PARALLELISM (MCS-7921258 A01*)*; 12 MONTHS $160,500

DAVIS, MARTIN; *LOGICAL INVESTIGATIONS IN COMPUTER SCIENCE (MCS-8002438 A01)*; 12 MONTHS $30,230

GRISHMAN, RALPH; *NATURAL LANGUAGE INTERFACES USING LIMITED SEMANTIC INFORMATION (MCS-8002453 A01)*; 12 MONTHS $68,300

SCHWARTZ, JACOB T; *OPTIMIZATION OF VERY HIGH LEVEL LANGUAGES (MCS-8004349 A01)*; 12 MONTHS $85,000

LUCAS, HENRY C; *COMPUTER BASED INFORMATION SYSTEMS AND THE ORGANIZATION (MCS-8012911)*; 18 MONTHS $52,548

OVERTON, MICHAEL L; *NUMERICAL METHODS FOR NON-SMOOTH OPTIMIZATION PROBLEMS (MCS-8101924)*; 24 MONTHS $40,000

HARRISON, MALCOLM C; *COMPUTER SCIENCE RESEARCH EQUIPMENT (MCS-8106882*)*; 12 MONTHS $147,000

STATE UNIVERSITY AT ALBANY

STEARNS, RICHARD E; *THEORY FOR THE DESIGN AND USE OF CONCURRENT DATABASE SYSTEMS (MCS-7903770 A01*)*; 24 MONTHS $51,788

STATE UNIVERSITY AT BINGHAMTON

KARPOVSKY, MARK, AND SU, STEPHEN Y; *DETECTION OF BRIDGING AND STUCK-TYPE FAULTS IN DIGITAL NETWORKS (MCS-8021362)*; 24 MONTHS $114,028

STATE UNIVERSITY AT BUFFALO

SHAPIRO, STUART C; *STUDIES OF DEDUCTIVE NETWORKS FOR THE REPRESENTATION OF KNOWLEDGE (MCS-8006314 A01)*; 12 MONTHS $52,363

CASE, JOHN; *MACHINE THEORY OF PROGRAM STRUCTURE, SELF-REFLECTION, AND INDUCTIVE INFERENCE (MCS-8010728)*; 24 MONTHS $58,921

GURARI, EITAN M; *COMPLEXITY OF DECISION PROBLEMS (MCS-8021124 A01)*; 24 MONTHS $49,173

STATE UNIVERSITY AT STONY BROOK

GELERNTER, HERBERT; *COMPUTER-DIRECTED ORGANIC SYNTHESIS ROUTE DISCOVERY (MCS-7816786 A02)*; 12 MONTHS $74,858

KIEBURTZ, RICHARD B, AND SMITH, DAVID R; *EXPERIMENTS IN DISTRIBUTED COMPUTING (MCS-8102285)*; 12 MONTHS $36,934

TUCKER, ALAN C; *PERFECT GRAPHS, CIRCULAR-ARC GRAPHS, AND ASSOCIATED ALGORITHMS (MCS-8102701*)*; 24 MONTHS $7,000

KEDEM, ZVI M; *THEORY AND APPLICATIONS OF DATABASE CONCURRENCY CONTROL (MCS-8104882)*; 24 MONTHS $74,991

KEDEM, ZVI M; *STOCHASTIC MODELING OF COMPLEX PHENOMENA IN COMPUTER GRAPHICS (MCS-8110097)*; 24 MONTHS $71,978

SYRACUSE UNIVERSITY

REYNOLDS, JOHN C; *THE DESIGN, DEFINITION, AND IMPLEMENTATION OF PROGRAMMING LANGUAGES (MCS-8017571)*; 12 MONTHS $59,405

MORRIS, F L; *VERY HIGH-LEVEL STATICALLY TYPED PROGRAMMING LANGUAGES (MCS-8100513)*; 24 MONTHS $42,185

UNIVERSITY OF ROCHESTER

FELDMAN, JEROME A; *DISTRIBUTED COMPUTING RESEARCH (MCS-8104008)*; 24 MONTHS $200,000

NORTH CAROLINA

DUKE UNIVERSITY

ROSENBERG, ARNOLD; *GRAPH EMBEDDINGS AND VLSI COMPLEXITY (MCS-8116522)*; 12 MONTHS $40,846

BALLARD, BRUCE W; *NATURAL LANGUAGE INTERFACES TO 'LAYERED' DOMAINS: A MULTIPLE-PROTOTYPE APPROACH (MCS-8116807*)*; 24 MONTHS $31,598

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

LATCH, DANA MAY, AND STANAT, DONALD F; *SEMANTICS OF FUNCTIONAL PROGRAMMING LANGUAGES (MCS-8104217*)*; 24 MONTHS $123,124

OHIO

OHIO STATE UNIVERSITY

CROW, FRANKLIN C; *TOWARD MORE COMPLICATED COMPUTER IMAGERY (MCS-7920977 A01)*; 12 MONTHS $43,978

CSURI, CHARLES A, PARENT, RICHARD E, AND OLSON, KARL; *COMPLEX ANIMATION AND COMPLEX OBJECT SYNTHESIS (MCS-7923670 A01)*; 12 MONTHS $139,913

ZWEBEN, STUART H, AND WHITE, LEE J; *AN APPROACH TO PROGRAM TESTING BASED ON MODULARITY (MCS-8018769)*; 24 MONTHS $110,000

SEYMOUR, PAUL; *STRUCTURE THEOREMS FOR GRAPHS AND MATROIDS AND DISCRETE OPTIMIZATION (MCS-8103440*)*; 24 MONTHS $8,000

CHANDRASEKARAN , B; *KNOWLEDGE ORGANIZATION AND PROBLEM SOLVING FOR DIAGNOSTIC TASKS (MCS-8103480)*; 12 MONTHS $59,387

OREGON

OREGON STATE UNIVERSITY

SMITH, KENNAN T; *MATHEMATICAL ASPECTS OF DIVERGENT BEAM RADIOGRAPHY (MCS-8101586*)*; 12 MONTHS $18,699

UNIVERSITY OF OREGON - EUGENE

WANG, PATRICK S; *TOWARDS A THEORY OF SEQUENTIAL/ PARALLEL MATRIX ARRAY LANGUAGES (MCS-8003290)*; 24 MONTHS $2,422

PENNSYLVANIA

BUCKNELL UNIVERSITY

LUKS, EUGENE M; *GRAPH ISOMORPHISM AND RELATED TOPICS (MCS-8102856)*; 24 MONTHS $25,407

CARNEGIE-MELLON UNIVERSITY

KUNG, H T; *PARALLEL PROCESSING AND COMPUTATIONAL COMPLEXITY (MCS-7823678 A03)*; 12 MONTHS $74,881

DIRECTOR, S W, AND SIEWIOREK, DANIEL P; *MULTI-LEVEL COMPUTER AIDED DESIGN OF VLSI DIGITAL SYSTEMS (ECS-7825755 A02*)*; 12 MONTHS $88,200

REDDY, RAJ; *LEARNING AND KNOWLEDGE ACQUISITION IN SPEECH UNDERSTANDING SYSTEMS (MCS-7825824 A02)*; 12 MONTHS $122,327

HIBBARD, PETER, AND OSTLUND, NEIL S; *PERFORMANCE EVALUATION OF MULTIPROCESSOR COMPUTER SYSTEMS (MCS-7910498 A01)*; 12 MONTHS $66,381

KUNG, H T, AND SPROULL, ROBERT F; *CONFERENCE ON VLSI DESIGN: THEORY AND PRACTICE AT CARNEGIE-MELLON UNIVERSITY SEPTEMBER, 1981 (MCS-8008165*)*; 12 MONTHS $3,212

SHAW, MARY M; *ABSTRACTION TECHNIQUES FOR SOFTWARE DEVELOPMENT (MCS-8011409)*; 24 MONTHS $141,318

ANDREWS, PETER B; *AUTOMATED THEOREM PROVING IN TYPE THEORY (MCS-8102870)*; 12 MONTHS $44,051

JONES, ANITA K; *COLLABORATIVE RESEARCH ON SECURE COMPUTATION (MCS-8103044)*; 12 MONTHS $27,567

PENNSYLVANIA STATE UNIVERSITY

WALL, DAVID W; *LOW-DELAY BROADCAST ON SPANNING TREES (MCS-8102278)*; 24 MONTHS $30,679

SIMON, JANOS; *COMPUTATIONAL COMPLEXITY THEORY (MCS-8104876)*; 24 MONTHS $32,363

SOCIETY FOR INDUSTRIAL AND APPLIED MATH (SIAM)

BLOCK, I EDWARD; *CONFERENCE ON APPLICATIONS OF DISCRETE MATHEMATICS, TROY, NEW YORK, JUNE 10-12, 1981 (MCS-8100674*)*; 6 MONTHS $5,000

TEMPLE UNIVERSITY

BANERJI, RANAN B; *FLEXIBILITY AND EFFICIENCY OF KNOWLEDGE REPRESENTATION IN INTELLIGENT INFORMATION SYSTEMS (MCS-8110104*)*; 24 MONTHS $40,000

UNIVERSITY OF PENNSYLVANIA

BAJCSY, RUZENA K; *SCENE UNDERSTANDING VIA ACTIVE SENSORS (MCS-8106176*)*; 12 MONTHS $25,000

JOSHI, ARAVIND K; *RESEARCH IN NATURAL LANGUAGE PROCESSING (MCS-8107290)*; 12 MONTHS $120,013

UNIVERSITY OF PITTSBURGH

RHEINBOLDT, WERNER C; *COMPUTATIONAL CONTINUATION PROCESS FOR THE SOLUTION OF NON-LINEAR SYSTEMS OF EQUATIONS (MCS-7805299 A03)*; 12 MONTHS $48,202

SOFFA, MARY LOU; *CONTROL IMPLEMENTATION IN PROGRAMMING LANGUAGES (MCS-7906102 A01)*; 24 MONTHS $46,634

DALEY, ROBERT P; *AXIOMATIC COMPLEXITY AND ITS RELATION TO INFERENCE PROBLEMS AND THE THEORY OF COMPUTATION (MCS-8017332)*; 24 MONTHS $55,014

LLOYD, ERROL L; *COMPLEXITY AND OPTIMIZATION (MCS-8103713)*; 24 MONTHS $32,259

RHODE ISLAND

BROWN UNIVERSITY

GRENANDER, ULF, AND FREIBERGER, WALTER; *A THEORY OF PATTERNS AND ITS APPLICATIONS (MCS-7924983 A01)*; 12 MONTHS $98,999

SEDGEWICK, ROBERT; *THE ANALYSIS AND IMPLEMENTATION OF ALGORITHMS (MCS-8017579*)*; 24 MONTHS $121,059

REISS, STEVEN P; *PRACTICAL DATA-SWAPPING (MCS-8022242)*; 24 MONTHS $85,644

SAVAGE, JOHN E; *APPLIED COMPUTATIONAL COMPLEXITY (ECS-8024637*)*; 24 MONTHS $53,010

TEXAS

RICE UNIVERSITY

KENNEDY, KENNETH W; *AN OPTIMIZING PROGRAM MANAGEMENT SYSTEM FOR VECTOR FORTRAN (MCS-8104006)*; 24 MONTHS $118,860

CARTWRIGHT, ROBERT S; *SPECIFICATION LANGUAGES TO SUPPORT PROGRAM VERIFICATION, TESTING, AND TRANSLATION (MCS-8104209)*; 24 MONTHS $83,438

SOUTHERN METHODIST UNIVERSITY

MATULA, DAVID W; *FOUNDATION OF FINITE PRECISION ARITHMETIC (MCS-8012704 A01*)*; 12 MONTHS $36,230

WELLS, DAVID L; *NAVIGATION AND PERFORMANCE QUESTIONS IN ENCRYPTED DATA BASES (MCS-8107479)*; 24 MONTHS $36,581

UNIV OF TEXAS AT AUSTIN

LAM, SIMON S; *RESOURCE ALLOCATION FOR COMPUTER COMMUNICATION NETWORKS (ECS-7801803 A02*)*; 24 MONTHS $25,000

YOUNG, DAVID M, AND KINCAID, DAVID R; *RESEARCH AND DEVELOPMENT OF ITERATIVE ALGORITHMS AND SOFTWARE FOR ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS (MCS-7919829 A01*)*; 12 MONTHS $48,914

BLEDSOE, WOODROW W; *RESEARCH ON AUTOMATIC THEOREM PROVING AND APPLICATIONS (MCS-8011417)*; 12 MONTHS $88,629

CHANDY, K MANI; *ALGORITHMS FOR COMPUTER PERFORMANCE ANALYSIS (MCS-8101911)*; 24 MONTHS $72,635

SILBERSCHATZ, ABRAHAM; *THEORY AND APPLICATIONS OF DATABASE CONCURRENCY CONTROL (MCS-8104017)*; 24 MONTHS $100,001

FUSSELL, DONALD; *STOCHASTIC MODELING OF COMPLEX PHENOMENA IN COMPUTER GRAPHICS (MCS-8109489)*; 24 MONTHS $59,861

BOYER, ROBERT S, AND MOORE, J STROTHE; *MECHANIZING THE MATHEMATICS OF COMPUTER PROGRAM ANALYSIS (MCS-8116774)*; 9 MONTHS $93,368

UNIV OF TEXAS AT SAN ANTONIO

ARMSTRONG, CEDRIC V; *COMPUTER SCIENCE RESEARCH EQUIPMENT (MCS-8105908)*; 12 MONTHS $37,184

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

KO, KER-I; *FEASIBLE COMPUTATION OF REAL FUNCTIONS (MCS-8103479)*; 24 MONTHS $25,367

UTAH

UNIVERSITY OF UTAH

BARNHILL, ROBERT E; *COMPUTER AIDED SURFACE REPRESENTATION AND DESIGN (MCS-8101854)*; 24 MONTHS $135,416

HOLLAAR, LEE A, AND RIESENFELD, RICHARD F; *COMPUTER SCIENCE RESEARCH EQUIPMENT (MCS-8105757*)*; 12 MONTHS $145,000

KELLER, ROBERT M; *VERY GENERAL PURPOSE MULTIPROCESSING (MCS-8106177)*; 24 MONTHS $87,245

VIRGINIA

DEPARTMENT OF DEFENSE-DEFENSE ADVANCED RESEARCH PROJECTS AGENCY

KAHN, ROBERT E; *THE CSNET PROJECT (MCS-8116606)*; 12 MONTHS $458,944

UNIVERSITY OF VIRGINIA

PRATT, TERRENCE W; *A FORMAL THEORY OF PROGRAMMING LANGUAGE DEFINITION (MCS-7800763 A02)*; $10,828

MANSFIELD, LOIS; *FINITE ELEMENTS IN PARTIAL DIFFERENTIAL EQUATIONS (MCS-8016528 A01)*; 24 MONTHS $67,815

PFALTZ, JOHN L; *ANALYSIS OF MULTI-ATTRIBUTE RETRIEVAL USING INDEXED DESCRIPTOR FILES (MCS-8017779*)*; 24 MONTHS $75,000

VIRGINIA POLYTECHNIC INSTITUTE

SHAPIRO, LINDA G, AND HARALICK, ROBERT M; *STRUCTURAL MATCHING AND GEOMETRIC REASONING FOR OBJECT CLASSIFICATION (MCS-8102874)*; 12 MONTHS $60,014

WASHINGTON

UNIVERSITY OF WASHINGTON

BAER, JEAN-LOUP; *MODELLING AND EVALUATION OF PARALLEL PROCESSING (MCS-7609839 A02)*; $5,377

LADNER, RICHARD E; *THEORY OF ADVANCED COMPUTING STRUCTURES (MCS-8003337 A01)*; 12 MONTHS $46,772

NOE, JERRE D, GOLDE, HELLMUT, LAZOWSKA, EDWARD D, AND ALMES, G T; *A FUNCTIONALLY INTEGRATED ENVIRONMENT FOR DISTRIBUTED COMPUTATION (MCS-8004111 A01)*; 12 MONTHS $1,145,000

BAER, JEAN-LOUP; *PARALLEL AND DISTRIBUTED PROCESSING (MCS-8025616)*; 24 MONTHS $65,416

ZAHORJAN, JOHN; *THE APPROXIMATE SOLUTION OF LARGE QUEUEING NETWORK MODELS (MCS-8104879)*; 24 MONTHS $50,692

TOMPA, MARTIN; *VLSI DESIGN AIDS, AND INHERENT COMPLEXITY OF COMMON PROBLEMS (MCS-8110089*)*; 24 MONTHS $52,600

WISCONSIN

UNIVERSITY OF WISCONSIN-LA CROSSE

HENRY, SALLIE; *A COMPREHENSIVE STUDY OF SOFTWARE METRICS FOR LARGE-SCALE SYSTEMS (MCS-8117742)*; 24 MONTHS $42,000

UNIVERSITY OF WISCONSIN-MADISON

DEWITT, DAVID J; *INVESTIGATION OF DATA-FLOW MACHINES FOR RELATIONAL DATABASE MANAGEMENT SYSTEMS (MCS-7801721 A02)*; $15,183

MANGASARIAN, OLVI L, MEYER, R R, AND ROBINSON, S M; *COMPUTATION AND THEORY IN NONLINEAR PROGRAMMING (MCS-7901066 A02)*; 12 MONTHS $98,943

SCARPACE, FRANK L; *APPLYING RECURSIVE CUE/MODEL HIERARCHIES TO SCHEMATA BASED COMPUTER VISION (MCS-8004882 A01)*; 12 MONTHS $27,444

COLLINS, GEORGE E; *ALGEBRAIC ALGORITHMS AND SYSTEMS (MCS-8009357)*; 12 MONTHS $68,282

COLLINS, GEORGE E; *ALGEBRAIC ALGORITHMS AND SYSTEMS (MCS-8009357 A01)*; 12 MONTHS $55,735

KLUG, ANTHONY C; *A DATABASE MANAGEMENT SYSTEM HAVING MULTIPLE VIEWS AND MULTIPLE DATA MODELS (MCS-8102864)*; 24 MONTHS $71,010

LANDWEBER, LAWRENCE H, COOK, ROBERT P, DEWITT, DAVID J, AND FINKEL, RAPHAEL A; *A SOFTWARE-PARTIONABLE MULTICOMPUTER: A TESTBED FOR DISTRIBUTED PROCESSING (MCS-8105904)*; 12 MONTHS $670,528

UHR, LEONARD M; *ARRAY/NETWORK ARCHITECTURES FOR IMAGE PROCESSING (MCS-8109103)*; 24 MONTHS $82,601

LANDWEBER, LAWRENCE H, AND SOLOMON, MARVIN H; *TECHNICAL SUPPORT OF CSNET AND SERVICE HOST FUNCTIONS IN SUPPORT OF CSNET (MCS-8109318)*; 12 MONTHS $733,219

UNIVERSITY OF WISCONSIN-MILWAUKEE

DAVIDA, GEORGE I; *DATA SECURITY (MCS-8112345)*; 12 MONTHS $43,737

WYOMING

UNIVERSITY OF WYOMING
WINKEL, DAVID E; *COMPUTER SCIENCE RESEARCH EQUIPMENT*
(MCS-8106303)*; 12 MONTHS $13,890

ENGINEERING

ELECTRICAL, COMPUTER AND SYSTEMS ENGINEERING

ALABAMA

SOUTHERN RESEARCH INSTITUTE

DUNN, RICHARD L, AND CASPER, ROBERT A; *REPLACEMENT OF SENSORY CAPABILITIES FOR THE PHYSICALLY HANDICAPPED (ECS-7915314 A02)*; 12 MONTHS $105,000

UNIVERSITY OF ALABAMA IN BIRMINGHAM-MEDICAL COLLEGE OF ALABAMA

FLETCHER, SAMUEL G; *PRODUCTION AND VISUAL ARTICULATORY SHAPING OF SPEECH IN DEAF CHILDREN (ECS-8016736)*; 12 MONTHS $122,442

ARIZONA

ARIZONA STATE UNIVERSITY

AKERS, LEX A; *THREE DIMENSIONAL ANALYSIS OF A SMALL GEOMETRY MOSFET (ECS-8109198)*; 24 MONTHS $39,140

UNIVERSITY OF ARIZONA

NUDELMAN, SOL; *PHOTOELECTRONIC (VIDEO) RADIOLOGY (ECS-7918518 A01)*; 12 MONTHS $76,981

KORN, GRANINO A; *RESEARCH ON NEW, FAST, DIRECT-EXECUTING PROGRAMS FOR MULTIPLE MICROPROCESSOR SYSTEMS (ECS-7925404 A01)*; 12 MONTHS $65,100

GIBBS, HYATT M; *OPTICAL BISTABILITY EXPERIMENTS TO IMPROVE SOLID-STATE DEVICES AND BASIC UNDERSTANDING (ECS-8020303*)*; 12 MONTHS $39,514

HAMILTON, DOUGLAS J, AND KERWIN, WILLIAM J; *INTEGRATED THERMIONIC CIRCUIT RESEARCH (ECS-8022938)*; 12 MONTHS $70,000

HAMILTON, DOUGLAS J; *CONFERENCE ON HIGH-TEMPERATURE ELECTRONICS (ECS-8108037)*; 6 MONTHS $4,000

CALIFORNIA

ASSOCIATION OF BAY AREA GOVERNMENTS

GOLDMAN, ROBERT; *IPA MOBILITY ASSIGNMENT (ROBERT E. GOLDMAN) (ISP-8026082 A01*)*; $2,300

CALIFORNIA INSTITUTE OF TECHNOLOGY

MEAD, CARVER A; *DESIGN OF SILICON STRUCTURES (MCS-7826367 A02*)*; 12 MONTHS $61,438

YARIV, AMNON; *SEMICONDUCTOR OPTOELECTRONICS (ECS-7909972 A02)*; 12 MONTHS $93,283

YARIV, AMNON; *ULTRA HIGH SPEED SWITCHING DEVICES AND CARRIER DYNAMICS IN SEMICONDUCTORS (ECS-7916915 A01)*; 12 MONTHS $50,661

SEITZ, CHARLES L; *SECOND CALTECH CONFERENCE ON VLSI, JANUARY 1981 (ECS-8025817*)*; 6 MONTHS $4,510

YARIV, AMNON; *SPECIALIZED RESEARCH EQUIPMENT: MOLECULAR BEAM EPITAXY MACHINE FOR SUBMICRON OPTOELECTRONICS (ECS-8100691*)*; 12 MONTHS $70,000

HUGHES AIRCRAFT COMPANY-HUGHES RESEARCH LABORATORIES

NUDD, GRAHAM R; *INDUSTRY UNIVERSITY COOPERATIVE RESEARCH: VLSI COMPUTING STRUCTURES (ECS-8016581 A02*)*; 12 MONTHS $30,089

SAN DIEGO STATE UNIVERSITY

MASSEY, GAIL A; *NONLINEAR INTERACTION OF LIGHT AT OPTICAL SURFACES (ECS-8111257)*; 5 MONTHS $35,498

SRI INTERNATIONAL

CRAIGHILL, EARL; *USE OF VOICE-TO-TEXT CONVERSION IN DEAF-HEARING DIALOGUES (ECS-8023527)*; 12 MONTHS $77,756

STANFORD UNIVERSITY

LINVILLE, JOHN G; *INTEGRATED ELECTRO-MECHANICAL TRANSDUCER SYSTEMS (ECS-7822167 A02*)*; 12 MONTHS $124,212

MACOVSKI, ALBERT; *X-RAY IMAGING SYSTEMS USING ENERGY SPECTRUM ANALYSIS (ECS-7823307 A02)*; 12 MONTHS $76,008

COVER, THOMAS M; *MULTIPLE USER CHANNELS AND INFORMATION THEORY (ECS-7823334 A02)*; 12 MONTHS $74,993

PANTELL, RICHARD H; *OPTICAL BUNCHING OF FREE ELECTRONS (ECS-7901743 A02)*; 12 MONTHS $55,000

PEASE, R F; *MICROSTRUCTURE FABRICATION USING ELECTRON BEAMS OF CONVENTIONAL AND OF VERY LOW ENERGIES (ECS-7911100 A01*)*; 12 MONTHS $12,306

HELLMAN, MARTIN E; *DATA SECURITY (ECS-7916161 A02*)*; 10 MONTHS $42,549

GOODMAN, JOSEPH W, AND MACOVSKI, ALBERT; *MULTIPLEXED HOLOGRAPHIC RECONSTRUCTION METHODS FOR THREE-DIMENSIONAL STRUCTURES (ECS-7926432 A01*)*; 12 MONTHS $46,979

QUATE, CALVIN F; *RESEARCH ON ACOUSTIC MICROSCOPY WITH SUPERIOR RESOLUTION (ECS-8010786*)*; 12 MONTHS $60,003

DANTZIG, GEORGE B; *OPTIMIZATION OF LARGE-SCALE DYNAMIC SYSTEMS WITH SPECIAL REFERENCE TO ENERGY AND WATER RESOURCES (ECS-8012974*)*; 12 MONTHS $78,000

WHITE, ROBERT L, AND TILLER, WILLIAM A; *THE PHYSICS AND TECHNOLOGY OF ELECTRIC BUBBLES (ECS-8014561)*; 12 MONTHS $45,004

FEIGENBAUM, EDWARD A, BUCHANAN, BRUCE G, KEDES, LAWRENCE H, AND BRUTLAG, DOUGLAS L; *MOLGEN: A COMPUTER SCIENCE APPLICATION TO MOLECULAR BIOLOGY (ECS-8016247 A01*)*; 12 MONTHS $79,893

GRAY, ROBERT M; *INFORMATION THEORY AND DATA COMPRESSION (ECS-8016714)*; 12 MONTHS $43,731

HILLIER, FREDERICK S, AND HARRISON, J MICHAEL; *OPTIMAL DESIGN AND CONTROL OF QUEUEING SYSTEMS (ECS-8017867)*; 12 MONTHS $60,000

VEINOTT, ARTHUR F; *DYNAMIC, CONCAVE-COST, AND LATTICE PROGRAMMING WITH APPLICATIONS TO INVENTORY CONTROL AND SCHEDULING (ECS-8022027)*; 12 MONTHS $75,000

EL GAMAL, ABBAS; *THEORY OF INFORMATION TRANSMISSION THROUGH COMMUNICATION NETWORK (ECS-8026102)*; 24 MONTHS $65,260

PAULSON, BOYD C; *INTERACTIVE HUMAN-COMPUTER SYSTEM FOR VIDEO DATA ACQUISITION, STATISTICAL ANALYSIS, AND GRAPHICAL SIMULATION OF CONSTRUCTION OPERATIONS (ECS-8026783)*; 24 MONTHS $115,000

PANTELL, RICHARD H; *SPECIALIZED RESEARCH EQUIPMENT: VAN DE GRAAFF ACCELERATOR MODIFICATION (ECS-8104554)*; 12 MONTHS $55,000

UNIVERSITY OF CALIFORNIA, BERKELEY

SCHWARZ, S E; *INFRARED OSCILLATORS AND DETECTORS BASED UPON ELECTRONIC TECHNIQUES (ECS-7813933 A02)*; 12 MONTHS $45,000

BRODERSEN, ROBERT W, AND MESSERSCHMITT, DAVID G; *SIGNAL PROCESSING USING HYBRID ANALOG-DIGITAL CIRCUITS (ECS-7816946 A02)*; 12 MONTHS $37,000

ZADEH, LOTFI A; *RESEARCH IN APPLICATION OF THE THEORY OF FUZZY SETS TO THE ANALYSIS OF LARGE-SCALE SYSTEMS AND DECISION PROCESSES (ECS-7823143 A02)*; 12 MONTHS $48,500

KUH, E S, AND PEDERSON, D O; *CIRCUIT LAYOUT AND LARGE-SCALE NETWORKS (ECS-7824425 A02)*; 12 MONTHS $80,000

VARAIYA, PRAVIN P; *CONTROL OF LARGE SYSTEMS (ECS-7903879 A02)*; 12 MONTHS $65,947

POLAK, ELIJAH, AND SANGIOVANNI-VIN, ALBERTO; *AN OPTIMIZATION-BASED METHODOLOGY FOR COMPUTER-AIDED DESIGN (ECS-7913148 A01)*; 12 MONTHS $85,000

GUSTAFSON, TURE K; *TUNNELING INVESTIGATIONS OF OPTICAL ELECTRONICS (ECS-7923877 A01*)*; 12 MONTHS $57,000

WONG, EUGENE, AND WEELDREYER, JAMES A; *INDUSTRY/ UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: HETEROGENEOUS DATA MODELS AND DISTRIBUTED DATABASE ARCHITECTURE (ECS-8007683 A01*)*; 12 MONTHS $1,163

WONG, EUGENE; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: HETEROGENEOUS DATA MODELS AND DISTRIBUTED DATABASE ARCHITECTURE (ECS-8007683 A02*)*; 12 MONTHS $17,649

CHIAO, RAYMOND Y; *PARAMETRIC AMPLIFIERS AND HARMONIC MIXERS USING JOSEPHSON JUNCTIONS (ECS-8009834)*; 12 MONTHS $48,844

WHINNERY, JOHN R; *SPECIALIZED RESEARCH EQUIPMENT: MODE-LOCKED ARGON LASER AND SYNCHRONOUSLY-PUMPED DYE LASER SYSTEM (ECS-8011990)*; 12 MONTHS $30,000

CHUA, L O; *RESEARCH ON PROBLEMS IN NONLINEAR NETWORKS AND SYSTEMS (ECS-8020640)*; 12 MONTHS $56,000

HESS, DENNIS W; *PLASMA ETCHING OF ALUMINUM FOR INTEGRATED CIRCUITS APPLICATIONS (ECS-8021508)*; 12 MONTHS $60,795

GRAY, PAUL R, HODGES, D A, AND PEDERSON, D O; *RESEARCH IN METAL-OXIDE-SEMICONDUCTOR (MOS) DATA ACQUISITION CIRCUITS (ECS-8023872)*; 12 MONTHS $90,000

WANG, SHYH; *QUATERNARY LASERS FOR GUIDED WAVE OPTICAL COMMUNICATIONS (ECS-8024307)*; 12 MONTHS $56,000

LICHTENBERG, ALLAN J, AND LIEBERMAN, MICHAEL A; *RESEARCH IN HIGH ENERGY PLASMAS (ECS-8104561)*; 12 MONTHS $90,000

WANG, SHYH; *SPECIALIZED RESEARCH EQUIPMENT: ANCILLARY EQUIPMENT FOR A MOLECULAR BEAM EPITAXY SYSTEM (ECS-8105208*)*; 12 MONTHS $50,000

CHEUNG, NATHAN W; *RESEARCH INITIATION: INVESTIGATION OF SEMICONDUCTOR INTERFACES BY ION-BEAM CHANNELING (ECS-8105972)*; 24 MONTHS $48,000

NEUREUTHER, A R, AND OLDHAM, WILLIAM G; *INVESTIGATION AND MODELING OF PROCESSES FOR VLSI (ECS-8106243)*; 12 MONTHS $132,300

VAN DUZER, T; *RESEARCH IN JOSEPHSON DEVICES FOR DIGITAL CIRCUITS (ECS-8110032)*; 12 MONTHS $79,025

THOMPSON, CLARK D; *THEORETICAL STUDIES ON VLSI CIRCUITS: AREA, TIME AND TESTABILITY (ECS-8110684)*; 12 MONTHS $30,000

UNIVERSITY OF CALIFORNIA, DAVIS

FORBES, LEONARD; *CHARACTERIZATION OF SEMI-INSULATING GAAS MATERIALS AND FET DEVICES (ECS-7909955 A01)*; 12 MONTHS $21,948

DIENES, ANDREW J; *SYNCHRONOUSLY PUMPED DOUBLE MODE-LOCKING AND MEASUREMENTS OF PICOSECOND PULSE SHAPES (ECS-7921177 A01)*; 12 MONTHS $42,822

KRENER, ARTHUR J; *NONLINEAR SYSTEMS UNDER FEEDBACK (MCS-8003263 A01*)*; 12 MONTHS $7,799

UNIVERSITY OF CALIFORNIA, LOS ANGELES

GIBSON, JAMES S; *OPTIMAL CONTROL OF DISTRIBUTED PARAMETER SYSTEMS: THEORY AND NUMERICAL APPROXIMATION (ECS-7804753 A02)*; 24 MONTHS $73,868

GEOFFRION, ARTHUR M, AND GRAVES, GLENN W; *OPTIMIZATION OF LARGE-SCALE SYSTEMS (MCS-7822674 A02*)*; 12 MONTHS $17,500

WILLSON, A N; *THEORETICAL STUDIES OF CONTINUOUS AND DISCRETE-TIME ELECTRIC CIRCUITS (ECS-7911321 A02)*; 12 MONTHS $50,125

CHEN, FRANCIS F; *NONLINEAR INTERACTIONS OF CO2 LASER RADIATION WITH PLASMAS (ECS-8003558 A01)*; 12 MONTHS $57,100

WANG, KANG L; *INVESTIGATION ON INTERFACE REACTIONS OF TRANSITION-METAL/SI STRUCTURES INDUCED BY ION IMPLANTATION (ECS-8011037)*; 12 MONTHS $40,252

OMURA, JIM K, AND RUBIN, IZHAK; *RESEARCH IN SOURCE CHANNEL CODING AND COMMUNICATION NETWORKS (ECS-8012568)*; 12 MONTHS $63,500

DISTEFANO, JOSEPH J; *AUTOMATED OPTIMAL EXPERIMENT DESIGN (ECS-8015965)*; 12 MONTHS $65,000

YEH, CAVOUR W; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH: THE EXPLOITATION OF GUIDED WAVE OPTICS IN LOCAL COMPUTER NETWORKS (ECS-8020300*)*; 12 MONTHS $62,500

GERLA, MARIO; *COMMUNICATIONS PROTOCOLS FOR LOCAL BROADCAST NETWORKS (INT-8023740*)*; 36 MONTHS $13,235

ALLEN, FREDERICK G; *DOPANT INCORPORATION IN MOLECULAR BEAM EPITAXIAL GROWTH OF SILICON AND GERMANIUM (ECS-8100227)*; 24 MONTHS $101,179

WANG, KANG L; *DEVELOPING A SYSTEM FOR COMPOUND SEMICONDUCTOR INTERFACE MODIFICATION AND CHARACTERIZATION STUDY (ECS-8103738)*; 12 MONTHS $60,000

TEMES, GABOR C, AND MARTIN, KENNETH W; *NOVEL CIRCUITS AND APPLICATIONS FOR SWITCHED-CAPACITOR FILTERS (ECS-8105166)*; 12 MONTHS $70,000

PAN, DEE-SON; *RESEARCH INITIATION: AN INVESTIGATION ON BAND TO BAND CURRENT INJECTION FOR TRANSIT TIME NEGATIVE RESISTANCE DEVICE (ECS-8105982)*; 24 MONTHS $48,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

CHANG, WILLIAM S; *HYBRID CAVITY WAVEGUIDE (HCW) LASERS (ECS-7922933 A01)*; $8,494

HELTON, J WILLIAM; *OPERATOR THEORY MOTIVATED BY THEORETICAL ENGINEERING AND BY PARTIAL DIFFERENTIAL EQUATIONS (MCS-8001698 A01*)*; 12 MONTHS $2,750

SWORDER, DAVID D; *CONTROL OF STOCHASTIC SYSTEMS WITH NON-MARKOVIAN MODAL CHANGES (ECS-8003547 A01)*; 12 MONTHS $33,186

SCHULTZ, SHELDON, AND FREDKIN, DONALD R; *ANALYSIS OF TWO PROBLEMS IN THE FIELD OF SIGNAL PROCESSING (ECS-8005684 A01)*; 12 MONTHS $27,678

LEE, SING H; *OPTICAL ANALOG, HYBRID AND DIGITAL COMPUTATIONS (ECS-8017460)*; 12 MONTHS $75,000

CHANG, WILLIAM S; *ION MILLING, DEPOSITION AND SIMS SYSTEMS FOR MATERIALS AND DEVICES RESEARCH (ECS-8102927*)*; 12 MONTHS $63,000

HELTON, J WILLIAM; *CONFERENCE ON FUNCTIONAL ANALYSIS, SANTA MONICA, CALIFORNIA, AUGUST 2-4, 1981 (MCS-8104816*)*; 6 MONTHS $2,000

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

MATTHAEI, GEORGE L; *DIELECTRIC WAVEGUIDE FILTER AND MATCHING-STRUCTURE TECHNIQUES FOR MILLIMETER-WAVE AND OPTICAL APPLICATIONS (ECS-8016720)*; 12 MONTHS $34,643

KEMMERER, RICHARD A; *RESEARCH INITIATION: A SPECIFICATION LANGUAGE FOR RELIABLE SOFTWARE (ECS-8106683)*; 24 MONTHS $47,769

UNIVERSITY OF SANTA CLARA

SILJAK, DRAGOSLAV D; *DECENTRALIZED CONTROL OF LARGE-SCALE SYSTEMS (ECS-8011210)*; 12 MONTHS $51,394

UNIVERSITY OF SOUTHERN CALIFORNIA

WITTIG, CURT; *LASER KINETIC SPECTROSCOPY OF ELEMENTARY PROCESSES (ECS-7908598 A04)*; 12 MONTHS $55,000

SILVERMAN, LEONARD M, AND KUNG, SUN-YUAN; *STRUCTURE AND SENSITIVITY OF LINEAR SYSTEMS (ECS-7908673 A02)*; 12 MONTHS $52,000

BEKEY, GEORGE A, AND MENDEL, JERRY M; *PROBLEMS IN PARAMETER ESTIMATION AND IDENTIFICATION (ECS-7926454 A01)*; 12 MONTHS $74,978

BREUER, MELVIN A; *DESIGN AUTOMATION OF DIGITAL SYSTEMS (ECS-8005957)*; 24 MONTHS $102,349

WEIL, MAX H, AND BEN-BASSAT, MOSHE; *MULTIMEMBERSHIP AND MULTIPURPOSE CLASSIFICATION MODELS IN PATTERN RECOGNITION (ECS-8011369)*; 24 MONTHS $78,552

SILVERMAN, LEONARD M; *2-D IMAGE RESTORATION: ADAPTIVE AND RECURSIVE APPROACHES (ECS-8011911)*; 12 MONTHS $39,998

WEINGARTEN, VICTOR I; *ANALYSIS AND DESIGN OF IMPLANTS FOR A FRACTURED FEMUR (ECS-8018870)*; 12 MONTHS $79,079

GUNDERSEN, MARTIN A; *INDUSTRY/UNIVERSITY COOPERATIVE: A STUDY OF IMPURITY DEFECTS IN DEVICE-TYPE SEMICONDUCTORS (ECS-8020322)*; 12 MONTHS $86,108

KUEHL, HANS H; *NONLINEAR EFFECTS IN PLASMAS (ECS-8023368)*; 24 MONTHS $128,896

MOLDOVAN, DAN; *RESEARCH INITIATION - SOLUTION OF MATRIX RICCATI DIFFERENTIAL EQUATION ON MICROCOMPUTERS (ECS-8119509)*; 12 MONTHS $9,920

XEROX CORPORATION-XEROX-PALO ALTO RESEARCH CENTER

STREET, ROBERT A; *INTERNATIONAL TOPICAL CONFERENCE OF TETRAHEDRALLY BONDED AMORPHOUS SEMICONDUCTORS; PHOENIX, ARIZONA; MARCH 12-14,1981 (DMR-8022555*)*; 6 MONTHS $1,000

COLORADO

COLORADO STATE UNIVERSITY

SPAIN, IAN L; *ACQUISITION OF X-RAY DIFFRACTION AND FLUORESCENCE SPECTROSCOPY EQUIPMENT (DMR-8019522*)*; 12 MONTHS $7,500

COLLINS, GEORGE J; *HIGH EFFICIENCY CW ION LASERS BY ELECTRON BEAM PUMPING (ECS-8021505)*; 12 MONTHS $50,000

UNIVERSITY OF COLORADO AT BOULDER

KUESTER, EDWARD F, AND CHANG, DAVID C; *INVESTIGATION OF ELECTROMAGNETIC TRANSIENT PHENOMENA INVOLVING A DISPERSIVE, LAYERED HALF-SPACE (ECS-8021041)*; 12 MONTHS $33,975

HOROWITZ, ISAAC M; *QUANTITATIVE SYNTHESIS OF UNCERTAIN MULTIPLE INPUT-OUTPUT FEEDBACK SYSTEMS (ECS-8101958)*; 12 MONTHS $36,000

LOVE, WILLIAM F, AND MILLER, STANLEY C; *DC AND AC FLICKER NOISE (ECS-8104575)*; 12 MONTHS $70,000

VIBRASOUND RESEARCH CORPORATION

KUHN, GEORGE F; *HEARING AIDS FOR SPATIAL PERCEPTION AND LOCALIZATION (ECS-8022377*)*; 24 MONTHS $1,920

CONNECTICUT

UNIVERSITY OF CONNECTICUT

LUH, PETER B; *RESEARCH INITIATION: RESEARCH ON STACKELBERG GAMES AND ELECTRICITY PRICING (ECS-8105984)*; 12 MONTHS $21,623

YALE UNIVERSITY

DENARDO, ERIC V, AND ROTHBLUM, URIEL G; *DYNAMIC PROGRAMMING AND ITS USES (ECS-7825182 A02)*; 12 MONTHS $57,000

MA, TSO-PING; *OPTOELECTRONIC PROPERTIES OF MIS TUNNEL JUNCTIONS (ECS-7906933 A01)*; 12 MONTHS $41,956

KUC, ROMAN; *SIGNAL PROCESSING RESEARCH AND IMPLEMENTATION APPLIED TO DIAGNOSTIC ULTRASOUND SIGNALS (ECS-7919601 A01)*; 12 MONTHS $49,345

PROBER, DANIEL E; *RESEARCH ON SUBMICRON SUPERCONDUCTING QUANTUM DEVICES (ECS-7927165 A01)*; 12 MONTHS $67,838

NARENDRA, KUMPATI S; *LEARNING AUTOMATA THEORY AND APPLICATIONS (ECS-8008034)*; 24 MONTHS $113,956

FRANCIS, BRUCE A; *THEORY AND DESIGN OF SERVO-REGULATORS (ECS-8012565)*; 24 MONTHS $51,761

ZORNIG, JOHN G; *PHYSICAL SCALE MODELLING OF UNDERWATER ACOUSTIC PHENOMENA (ECS-8015966)*; 24 MONTHS $99,302

DELAWARE

UNIVERSITY OF DELAWARE

NEUTS, MARCEL F; *ALGORITHMIC METHODS FOR STOCHASTIC MODELS (ECS-7908351 A02)*; 12 MONTHS $42,850

DISTRICT OF COLUMBIA

AMERICAN ASSOCIATION FOR ADVANCEMENT SCIENCE

REDDEN, MARTHA R; *PLANNING WORKSHOPS AND BULLETINS FOR SCIENCE AND TECHNOLOGY FOR THE HANDICAPPED (ECS-7920290 A02*)*; 12 MONTHS $98,442

GEORGE WASHINGTON UNIVERSITY

FIACCO, ANTHONY V; *SENSITIVITY ANALYSIS OF CURRENT NONLINEAR PROGRAMMING MODELS OF A WATER POLLUTION ABATEMENT SYSTEM (ECS-7906104 A02)*; 12 MONTHS $32,815

SOLAND, RICHARD M; *INTERACTIVE METHODS OF MULTICRITERIA OPTIMIZATION (ECS-7911909 A02)*; 12 MONTHS $45,339

NATIONAL ACADEMY OF SCIENCES

DOW, RICHARD Y; *SUPPORT OF THE XXTH GENERAL ASSEMBLY OF THE INTERNATIONAL UNION OF RADIO SCIENCE (OST-8020314*)*; 18 MONTHS $4,000

POLLACK, KERSTIN B; *A STUDY OF EDUCATION AND UTILIZATION OF ENGINEER 1980-2000: STATUS, NEEDS, AND OPPORTUNITIES, PHASE I (OSG-8107881*)*; 6 MONTHS $5,000

FLORIDA

UNIVERSITY OF FLORIDA-ENGINEERING & INDUSTRIAL EXPERIMENT STATION

HEARN, DONALD W; *DECOMPOSITION TECHNIQUES FOR NONLINEAR COST MULTICOMMODITY FLOW PROBLEMS (ENS-7925045 A01)*; 12 MONTHS $19,115

SUTHERLAND, ALAN D; *QUANTUM NOISE AT 90 GHZ AND 2 DEGREE K (ECS-8007623)*; 12 MONTHS $174,802

UNIVERSITY OF FLORIDA

FRANCIS, RICHARD L; *NETWORK LOCATION PROBLEMS (ECS-8007110 A01)*; 12 MONTHS $4,308

SMITH, JACK R; *A MICROCOMPUTER BASED ANALYSIS OF ABNORMAL ELECTROENCEPHALOGRAMS (ECS-8008035)*; 24 MONTHS $98,620

LASIECKA, IRENA, AND TRIGGIANI, ROBERTO; *BOUNDARY CONTROL PROBLEMS FOR PARABOLIC AND HYPERBOLIC PARTIAL DIFFERENTIAL EQUATIONS (MCS-8102837*)*; 12 MONTHS $10,123

UNIVERSITY OF SOUTH FLORIDA

CHEN, CHARLES T; *A STUDY OF BURST NOISE IN THICK FILM RESISTORS (ECS-8021043)*; 24 MONTHS $76,881

VARANASI, MURALI P.; *INVESTIGATION OF HIGH RATE CODES FOR USE IN ARITHMETIC AND MEMORY SYSTEMS (ECS-8111193)*; 24 MONTHS $86,133

GEORGIA

GEORGIA INSTITUTE OF TECHNOLGY MAIN CAMPUS

MERSEREAU, RUSSELL M, AND SCHAFER, RONALD W; *REPRESENTATION AND PROCESSING OF SIGNALS IN TWO-DIMENSIONAL FORM (ECS-7817901 A04)*; 12 MONTHS $40,500

JEROSLOW, ROBERT G; *NONLINEAR PROGRAMMING AND CUTTING-PLANE THEORY (ECS-8001763 A01*)*; 12 MONTHS $15,754

BARNWELL, THOMAS P; *IMPROVED OBJECTIVE SPEECH QUALITY MEASURES FOR LOW BIT RATE SPEECH COMPRESSION (ECS-8016712)*; 12 MONTHS $41,547

RARDIN, RONALD L; *TIGHT RELAXATION APPROACHES TO FIXED CHARGE PROBLEMS ON GRAPHS AND NETWORKS (ECS-8018954)*; 24 MONTHS $49,951

BARTHOLDI, JOHN J; *STAFFING PROBLEMS AND SYMMETRIC INTEGER PROGRAMS (ECS-8026080)*; 12 MONTHS $4,651

SHETTY, C M; *OPTIMIZATION WITH DISJUNCTIVE CONSTRAINTS (ECS-8026770)*; 12 MONTHS $34,999

SMITH, GLENN S; *SUBMINIATURE IMPLANTABLE ELECTRIC FIELD PROBES FOR MICROWAVE DOSIMETRY AND BIOLOGICAL SYSTEMS (ECS-8105163)*; 12 MONTHS $18,822

MOHARAM, M G; *RESEARCH INITIATION: A STUDY OF PLANAR DIELECTRIC GRATING COUPLERS (ECS-8105483)*; 24 MONTHS $48,000

VERRIEST, ERIK I; *RESEARCH INITIATION: ON GENERALIZED BALANCED REALIZATIONS AND APPLICATIONS TO MODEL REDUCTION (ECS-8105509)*; 24 MONTHS $45,163

HAWAII

UNIVERSITY OF HAWAII-MANOA

ABRAMSON, NORMAN; *PACKET BROADCASTING NETWORKS (ECS-7812284 A02)*; 12 MONTHS $49,000

KINARIWALA, BHARAT; *DIGITAL COMMUNICATION SYSTEMS AND THEIR NETWORKS (ECS-8004378)*; 24 MONTHS $120,000

LIN, SHU; *CODING FOR MULTIPLE-ACCESS AND BROADCAST CHANNELS AND ERROR CONTROL FOR DATA COMMUNICATIONS (ECS-8102894)*; 24 MONTHS $60,000

ILLINOIS

ILLINOIS INSTITUTE OF TECHNOLOGY

GRAUPE, DANIEL; *NONLINEAR AND NONSTATIONARY MYOELECTRIC TEMPORAL SIGNATURE ANALYSIS FOR RELIABLE MULTIFUNCTIONAL PROSTHESIS & ORTHOSIS CONTROL (ECS-8016226)*; 24 MONTHS $128,947

COSTELLO, DANIEL J; *HYBRID ERROR CONTROL IN PACKET COMMUNICATION NETWORKS (ECS-8103746)*; 12 MONTHS $30,000

NORTHWESTERN UNIVERSITY

HAKIMI, S LOUIS; *APPLICATIONS OF GRAPH THEORY TO PROBLEMS IN NETWORKS AND FAULT ANALYSIS IN DIGITAL SYSTEMS (ECS-7909724 A02)*; 12 MONTHS $54,026

BRODWIN, MORRIS E, AND WHITMORE, D H; *STUDIES OF MOBILE ION BEHAVIOR IN CERAMIC ELECTROLYTES USING DYNAMICAL EXPERIMENTAL PROBES (DMR-8015803*)*; 12 MONTHS $20,000

SCHMITTENDORF, WILLIAM E; *CONTROLLABILITY AND AVOIDABILITY PROBLEMS FOR SYSTEMS WITH AND WITHOUT DISTURBANCES (ECS-8024300)*; 12 MONTHS $37,272

HURTER, ARTHUR P; *PRODUCTION-INVESTMENT-LOCATION PROBLEMS UNDER UNCERTAINTY: MODEL FORMULATION, ANALYSIS, AND SOLUTION ALGORITHMS (ECS-8102896)*; 12 MONTHS $40,828

HAZEN, GORDON B; *RESEARCH INITIATION: DETERMINISTIC DOMINANCE APPROACHES FOR MULTIPLE OBJECTIVE OPTIMIZATION (ECS-8105965)*; 12 MONTHS $21,393

HSU, WEN-LIAN; *RESEARCH INITIATION: EFFICIENT ALGORITHMS FOR SOME PROBLEMS ON GRAPHS (ECS-810[illegible]389)*; 12 MONTHS $21,199

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE

HU, CHIA-LUN; *A NOVEL MICROWAVE AUTOMATIC IMPEDANCE MEASUREMENT SYSTEM (ECS-8118880)*; 12 MONTHS $35,000

UNIVERSITY OF CHICAGO

GOULD, FLOYD J; *HOMOTOPY AND PIVOTAL METHODS (ECS-7990177 A01)*; 12 MONTHS $44,570

LEVI-SETTI, RICCARDO; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: DEVELOPMENT OF A NEW HIGH-RESOLUTION SCANNING ION MICROPROBE (DMR-8007978 A02*)*; 12 MONTHS $10,700

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

CHANG, SHI-KUO; *PICTURE ALGEBRA AND PICTURE DATA STRUCTURES (ECS-8005953 A01)*; 12 MONTHS $39,665

GOSE, EARL E; *AUTOMATED SCENE ANALYSIS (ECS-8012191)*; 24 MONTHS $81,170

MCCORMICK, BRUCE H; *MICROPARTICLE BEAM TRANSPORT (ECS-8024703)*; 12 MONTHS $80,000

LIN, JAMES C; *STUDIES OF MICROWAVE AUDITORY PHENOMENON (ECS-8026497)*; 24 MONTHS $90,000

MINIEKA, EDWARD; *OPTIMAL LOCATION OF SERVICE STRUCTURES IN A NETWORK (ECS-8104647)*; 12 MONTHS $30,130

BERG, MENACHEM, AND KOREN, ISRAEL; *MODULE SWITCHING POLICIES IN MODULAR REDUNDANCY FAULT-TOLERANT COMPUTER SYSTEMS (ECS-8105276)*; 24 MONTHS $53,045

LEINWAND, SANY M; *RESEARCH INITIATION: AUTOMATIC DERIVATION OF TIMING CONSTRAINTS FOR LOGIC CIRCUITS (ECS-8105646*)*; 24 MONTHS $47,971

MURATA, TADAO; *NET THEORY FOR LARGE CONCURRENT SYSTEMS (ECS-8105649)*; 24 MONTHS $109,610

UNIVERSITY OF ILLINOIS AT URBANA

TRICK, TIMOTHY N, JENKINS, W KENNETH, AND EL-MASRY, E I; *ANALYTICAL AND COMPUTER-AIDED DESIGN OF NEW CIRCUIT STRUCTURE FOR SWITCHED CAPACITOR FILTERS (ECS-7817815 A01*)*; 24 MONTHS $94,565

COLEMAN, PAUL D; *METAL-OXIDATION REACTION KINETICS AND SHORT PULSE DETECTION IN THE FAR INFRARED (ECS-7916455 A01)*; 12 MONTHS $79,300

STILLMAN, GREGORY E; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH PROGRAM: AVALANCHE PHOTODIDE APPLICATIONS OF QUATERNARY ALLOYS FOR FIBEROPTICAL COMMUNICATION SYSTEMS (ECS-7917581 A01*)*; 12 MONTHS $64,224

CRUZ, JOSE B, KOKOTOVIC, PETAR V, AND PERKINS, W R; *LARGE SCALE SYSTEMS (ECS-7919396 A01)*; 12 MONTHS $140,000

LEE, SHUNG-WU, AND MITTRA, RAJ; *STUDY OF OPTICAL & SUB-OPTICAL FILTERS MADE OF CONDUCTING GRIDS ON DIELECTRIC SUBSTRATES (ECS-8007113)*; 24 MONTHS $89,949

CRUZ, JOSE B; *MULTIVARIABLE STOCHASTIC SYSTEMS WITH MULTIPLE DECISION MAKERS: MODELS FOR POLICY ANALYSIS (INT-8018622*)*; 24 MONTHS $15,156

SAH, CHIH-TANG; *STUDY OF OXIDE TRAPS AND INTERFACE STATES IN SILICON MICROSTRUCTURES (ECS-8021114)*; 12 MONTHS $68,663

AHUJA, NARENDRA; *RESEARCH INITIATION: DOT PATTERN PROCESSING USING VORONOI NEIGHBORHOODS (ECS-8106008)*; 24 MONTHS $48,000

PREPARATA, FRANCO P; *COMPUTATIONAL GEOMETRY IN THE DESIGN OF VLSI CIRCUITS (ECS-8106939)*; 24 MONTHS $65,571

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

CRAIG, JAMES C; *TACTILE PERCEPTION OF SPEECH (ECS-8017178)*; 12 MONTHS $71,451

PURDUE UNIVERSITY

FU, KING-SUN; *PATTERN RECOGNITION AND PICTURE PROCESSING (ECS-7816970 A03)*; 12 MONTHS $132,574

GEDDES, LESLIE A; *A NEW ELECTRICAL METHOD FOR MEASURING THE OUTPUT OF THE HEART (ECS-7828081 A02)*; 12 MONTHS $49,681

NEWHOUSE, VERNON L; *TRANSCUTANEOUS ULTRASOUND MEASUREMENT OF DISTURBED BLOOD FLOW (ECS-7916488 A01)*; 12 MONTHS $71,609

SARIDIS, GEORGE N; *ADVANCED INTELLIGENT CONTROL FOR TRAINABLE MANIPULATORS (ECS-7916882 A01)*; 12 MONTHS $82,374

BERKOVITZ, LEONARD D; *DIFFERENTIAL GAMES AND OPTIMAL CONTROL (MCS-7927137 A01*)*; 12 MONTHS $10,387

FUKUNAGA, KEINOSUKE; *A PROGRAM PACKAGE FOR SYSTEMATIC FEATURE EVALUATION WITH WIDESPREAD DATA APPLICATION (ECS-8005482)*; 24 MONTHS $63,776

KASHYAP, RANGASAMI L; *TWO DIMENSIONAL RANDOM FIELD MODELS FOR IMAGES (ECS-8009041)*; 24 MONTHS $103,354

PIERRET, ROBERT F, AND GUNSHOR, ROBERT L; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ELECTROPHYSICAL ASPECTS OF MONOLITHIC SAW STRUCTURES (ECS-8009793*);* 12 MONTHS $19,537

FU, KING-SUN, BRIGGS, FAYE A, AND HWANG, KAI; *VLSI MULTIPROCESSOR ARCHITECTURE AND RELATIONAL DATABASE FOR ANALYSIS AND MANAGEMENT OF IMAGERY DATA (ECS-8016580);* 12 MONTHS $144,226

GALLAGHER, NEAL C; *THEORETICAL ANALYSIS OF MEDIAN FILTERS WITH APPLICATIONS TO ONE AND TWO DIMENSIONAL SIGNAL PROCESSING (ECS-8024302);* 24 MONTHS $75,327

GUNSHOR, ROBERT L; *ION BEAM ETCHING AND DEPOSITION EQUIPMENT (ECS-8103744);* 12 MONTHS $40,000

LUNDSTROM, MARK S; *RESEARCH INITIATION: COMPUTER MODELING OF INTEGRATED-CIRCUIT DEVICES AND FABRICATION PROCESSES (ECS-8105956);* 24 MONTHS $47,967

WAH, BENJAMIN W; *RESEARCH INITIATION: THE LOGICAL DESIGN OF DISTRIBUTED DATABASES AND ITS IMPACT TO QUERY PROCESSING AND FILE MIGRATION (ECS-8105968);* 24 MONTHS $48,000

FU, KING-SUN; *WORKSHOP ON STRUCTURAL AND SYNTACTIC PATTERN RECOGNITION (ECS-8109620*);* 12 MONTHS $11,700

UNIVERSITY OF NOTRE DAME

SAIN, MICHAEL K; *DESIGN OF MULTIVARIABLE CONTROL SYSTEMS (ECS-8102891);* 12 MONTHS $45,001

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

MICHEL, ANTHONY N; *QUALITATIVE ANALYSIS OF COMPLEX DYNAMICAL SYSTEMS (ECS-8100690);* 12 MONTHS $46,000

UNIVERSITY OF IOWA

KORPEL, ADRIANUS; *NONLINEAR ACOUSTIC WAVE EFFECTS (ECS-7902889 A02);* 12 MONTHS $46,000

LONNGREN, KARL E, AND HERSHKOWITZ, NOAH; *STUDY OF NONLINEAR WAVE PLASMA INTERACTION (ECS-8019363);* 12 MONTHS $80,000

KANSAS

UNIVERSITY OF KANSAS MAIN CAMPUS

DUNCAN, TYRONE E; *GEOMETRIC SYSTEM THEORY (ECS-8024917*);* 12 MONTHS $9,500

DENDRINOS, DIMITRIOS S; *WORKSHOP ON: DYNAMIC NONLINEAR SYSTEMS THEORY IN GENERAL URBAN/REGIONAL SYSTEMS (29S-8026730*);* 8 MONTHS $6,200

STILES, WILLIAM H; *RESEARCH INITIATION: COMPLEX DIELECTRIC CONSTANT OF AGRICULTURAL PLANTS (ECS-8106677);* 24 MONTHS $47,995

UNIVERSITY OF KANSAS MEDICAL CENTER

COOK, PRAKAIRUT; *THREE-DIMENSIONAL RECONSTRUCTION FROM SERIAL SECTIONS FOR MEDICAL APPLICATIONS (ECS-8105996);* 24 MONTHS $30,772

KENTUCKY

UNIVERSITY OF KENTUCKY

LINDQUIST, ANDERS, AND WETS, ROGER; *STOCHASTIC SYSTEMS (ECS-7903731 A02);* 12 MONTHS $42,972

RISHEL, RAYMOND W; *OPTIMAL CONTROL OF JUMP PROCESSES (ECS-8102892);* 12 MONTHS $25,735

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

PORTER, WILLIAM A; *OPERATOR METHODS FOR SENSITIVITY, ADAPTIVITY, AND PARAMETER ESTIMATION (ECS-7818871 A02);* 12 MONTHS $47,154

MARYLAND

INSTITUTE OF ELECTRICAL & ELECTRONIC ENGRS INC-IEEE COMPUTER SOCIETY

HAYMAN, HARRY; *TRAVEL FUNDS FOR THE PARTIAL SUPPORT OF AN IEEE COMPUTER SOCIETY WORKSHOP (1991 WORKSHOP ON COMPUTER ARCHITECTURE FOR PATTERN ANALYSIS AND IMAGE DATABASE MANAGEMENT) (ECS-8116586);* 6 MONTHS $3,000

JOHNS HOPKINS UNIVERSITY

HAZAN, PAUL L; *APPLICATION OF PERSONAL COMPUTING TO ASSIST THE HANDICAPPED (ECS-8017898 A01);* $14,200

HAZAN, PAUL L; *APPLICATION OF PERSONAL COMPUTING TO ASSIST THE HANDICAPPED (A COMPUTERIZED DATA BASE) (ECS-8017898 A02);* 12 MONTHS $25,000

UNIVERSITY OF MARYLAND, COLLEGE PARK

LEE, CHI H; *PHOTOCONDUCTIVITY EFFECT IN SEMICONDUCTORS FOR PICOSECOND OPTOELECTRONIC DEVICES (ECS-7806862 A03);* 12 MONTHS $48,000

KANAL, LAVEEN N; *PATTERN RECOGNITION AND PROBLEM SOLVING RESEARCH (ECS-7822159 A02);* 12 MONTHS $79,000

ROSENFELD, AZRIEL, AND O'LEARY, DIANNE P; *REPRESENTATION AND CONTROL IN COMPUTER VISION: MULTILEVEL RELAXATION APPROACHES (MCS-7923422 A01*);* 12 MONTHS $32,413

DAVIS, CHRISTOPH C; *AN INVESTIGATION OF THE CAPABILITIES OF PHASE FLUCTUATION OPTICAL HETERODYNE TECHNIQUES (ECS-8023769);* 12 MONTHS $48,000

WILKERSON, THOMAS D; *LASER FOR RESEARCH APPLIED TO ATMOSPHERIC REMOTE SENSING (ECS-8103734);* 12 MONTHS $20,000

DAVIS, CHRISTOPH C; *SPECIALIZED RESEARCH EQUIPMENT: LASER SOURCE FOR STUDIES OF PHYSICAL PHENOMENA (ECS-8103743);* 12 MONTHS $28,875

MASSACHUSETTS

ASSOCIATION FOR PHYSICAL & SYSTEMS MATHEMATICS

HERMANN, ROBERT; *FIRST WORKSHOP ON CONTROL SYSTEM GEOMETRY, SYSTEM IDENTIFICATION AND PARAMETER ESTIMATION (ECS-8101099*);* 12 MONTHS $5,750

BOSTON COLLEGE

KALMAN, GABOR; *RESEARCH IN STRONGLY COUPLED PLASMAS (ECS-8118616);* 12 MONTHS $20,678

BOSTON UNIVERSITY

HORENSTEIN, MARK N; *RESEARCH INITIATION: DEVELOPMENT OF PROJECTILE DC ELECTRIC FIELD AND SPACE CHARGE PROBE (ECS-8106475);* 24 MONTHS $47,760

HARVARD UNIVERSITY

HO, YU-CHI; *LARGE-SCALE SYSTEMS AND MANY PERSON OPTIMIZATION (ECS-7815231 A02);* 12 MONTHS $46,000

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

KENNEDY, ROBERT S, EPSTEIN, DAVID J, AND SHAPIRO, JEFFREY H; *AN INVESTIGATION OF OPTICAL COMMUNICATIONS SYSTEMS FOR IMPROVED LOW-VISIBILITY COMMUNICATION (ECS-7821603 A02);* 12 MONTHS $88,000

KONG, JIN-AU; *REMOTE SENSING WITH ELECTROMAGNETIC WAVES (ECS-7823145 A02);* 12 MONTHS $48,400

BERS, ABRAHAM, AND BEKEFI, GEORGE; *PLASMA DYNAMICS (ECS-7907047 A02);* 12 MONTHS $380,000

HAUS, HERMANN A; *SURFACE ACOUSTIC WAVE GRATINGS AND MULTISTRIP COUPLERS (ECS-7909980 A02);* 12 MONTHS $49,000

HAUS, HERMANN A, AND FONSTAD, CLIFTON G; *DEVICES FOR HIGH-RATE OPTICAL COMMUNICATIONS (ECS-7919475 A01);* 12 MONTHS $65,000

GALLAGER, ROBERT G; *THE DYNAMICS OF DATA NETWORK RESEARCH (ECS-7919880 A01*);* 12 MONTHS $85,000

BERTSEKAS, DIMITRI; *COMPUTATIONAL METHODS FOR NONLINEAR PROGRAMMING AND OPTIMAL CONTROL (ECS-7920834 A01);* 12 MONTHS $57,625

COHEN, RICHARD J; *RANDOM PROCESS ANALYSIS OF BEAT-TO-BEAT FLUCTUATIONS IN ELECTROCARDIOGRAPHIC PARAMETERS (ECS-7922091 A01);* 12 MONTHS $60,000

GATOS, HARRY C, AND LAGOWSKI, JACEK; *NEW APPROACHES TO THE PREPARATION AND CHARACTERIZATION OF GAAS STRUCTURE FOR DEVICE APPLICATIONS (ECS-7923741 A01*);* 12 MONTHS $46,000

MAGNANTI, THOMAS L; *NETWORK ANALYSIS AND OPTIMIZATION (ECS-7926225 A01);* 12 MONTHS $65,023

OPPENHEIM, ALAN V, AND LIM, JAE S; *RESEARCH IN MULTI-DIMENSIONAL SIGNAL PROCESSING (ECS-8007102);* 12 MONTHS $78,000

WILLSKY, ALAN S, AND LEVY, BERNARD C; *ESTIMATION AND STATISTICAL ANALYSIS OF SPATIALLY-DISTRIBUTED RANDOM PROCESSES (ECS-8012668*);* 12 MONTHS $71,900

KOLM, HENRY H; *REACTION FORCES BETWEEN PARTS OF A CURRENT-CARRYING CIRCUIT (ECS-8012995);* 12 MONTHS $63,221

MELNGAILIS, JOHN; *COUPLING OF SURFACE ACOUSTIC WAVES IN GRATINGS TO BULK PLATE MODES -- PROPERTIES AND APPLICATIONS (ECS-8017705);* 12 MONTHS $55,709

LAX, BENJAMIN; *NON-LINEAR EXPERIMENTS ON A FREE ELECTRON LASER IN VARIOUS MAGNET STRUCTURES (ECS-8019634);* 12 MONTHS $85,000

IPPEN, ERICH P; *PICOSECOND OPTO-ELECTRONIC DEVICE STUDIES (ECS-8020639);* 12 MONTHS $90,000

FLOWERS, WOODIE C; *MICROCOMPUTER-CONTROLLED, INDIVIDUALIZED, MULTIMODE PROSTHESES FOR LOWER EXTREMITY AMPUTEES (ECS-8023193);* 12 MONTHS $80,000

REIF, L RAFAEL; *LOW TEMPERATURE EPITAXIAL DEPOSITION OF SILICON BY PLASMA ENHANCED CVD (ECS-8024306);* 12 MONTHS $62,297

LITTLE, JOHN D, AND MAGNANTI, THOMAS L; *COMPUTER TERMINAL EQUIPMENT FOR FACULTY RESEARCH (ECS-8105209);* 12 MONTHS $17,337

MELNGAILIS, JOHN; *ELECTRON BEAM EVAPORATOR FOR SUBMICRON STRUCTURES LABORATORY (ECS-8105650);* 12 MONTHS $60,000

NORTHEASTERN UNIVERSITY

SILEVITCH, MICHAEL B; *ON THE PROPERTIES OF A HIGH VOLTAGE 60HZ CROSSED-FIELD DISCHARGE (ECS-8023768);* 12 MONTHS $40,000

WARGA, JACK; *OPTIMAL CONTROL AND OPTIMIZATION (MCS-8102079*);* 12 MONTHS $10,043

GOLDEN, KENNETH I; *STRONGLY COUPLED PLASMA RESEARCH (ECS-8107449);* 12 MONTHS $20,000

RADIATION MONITORING DEVICES INC

ENTINE, GERALD; *PHOTOVOLTAIC DETECTORS FOR HIGH-INTENSITY X-RAY MEASUREMENT, PHASE II (08S-8020282);* 18 MONTHS $43,881

TUFTS-NEW ENGLAND MEDICAL CENTER INC

WILLARD, MARY JOAN, AND CORCORAN, PAUL; *CAPUCHIN MONKEYS AS AIDES FOR THE SEVERELY DISABLED (ECS-8001936 A01);* 18 MONTHS $53,045

GOODENOUGH-TREP, CHERYL; *THE DEVELOPMENT OF A NONVOCAL COMMUNICATION SYSTEM FOR PREREADING CHILDREN (ECS-8017163);* 24 MONTHS $165,360

UNIVERSITY OF MASSACHUSETTS, AMHERST

STONE, HAROLD S; *CONTROL OF DISTRIBUTED PROCESSES (MCS-7805295 A01*);* 24 MONTHS $50,000

WOLF, JACK K, AND TOWSLEY, DONALD F; *ON THE ANALYSIS AND SYNTHESIS OF COMPUTER - COMMUNICATION NETWORKS (ECS-7921140 A01);* 12 MONTHS $54,976

HILL, FRANCIS S, AND FRANKS, LEWIS E; *SIMPLIFIED IMPLEMENTATION OF DIGITAL SIGNAL PROCESSORS BASED ON DELTA MODULATION ENCODING (ECS-8005688 A01);* 12 MONTHS $51,623

SONDERMAN, DAVID; *RESEARCH INITIATION: STOCHASTIC RECIRCULATION SYSTEMS (ECS-8105954);* 16 MONTHS $37,340

WORCESTER POLYTECHNIC INSTITUTE

CLEMENTS, KEVIN A, AND DAVIS, PAUL W; *ELECTRIC POWER NETWORK MEASUREMENT SYSTEM DESIGN (ECS-7808407 A01);* 24 MONTHS $118,927

MICHIGAN

MICHIGAN STATE UNIVERSITY

DUBES, RICHARD C; *STRUCTURE OF MULTIDIMENSIONAL PATTERNS (ECS-8007106 A01);* 12 MONTHS $67,239

NETTLETON, RAYMOND W; *TRAFFIC THEORY AND INTERFERENCE MANAGEMENT FOR SPREAD SPECTRUM MOBILE COMMUNICATIONS (ECS-8100692);* 24 MONTHS $43,994

SHANBLATT, MICHAEL A; *RESEARCH INITIATION: VLSI ALGORITHMS FOR POWER SYSTEM ANALYSIS PROBLEMS (ECS-8106675);* 24 MONTHS $47,665

OAKLAND UNIVERSITY

GHAUSI, MOHAMMED S; *LOW SENSITIVITY ACTIVE FILTERS (ECS-8024305);* 18 MONTHS $64,800

METZNER, JOHN J; *FEEDBACK TECHNIQUES IN DATA COMMUNICATION NETWORKS (ECS-8112818);* 12 MONTHS $39,468

UNIVERSITY OF MICHIGAN-ANN ARBOR

GETTY, WARD D; *LINEAR AND NONLINEAR WAVE PROPAGATION IN MAGNETIC-MIRRORCONFINED PLASMA (ECS-8025310);* 12 MONTHS $58,000

GILGENBACH, RONALD M; *RESEARCH INITIATION: NONLINEAR INTERACTION OF LASER RADIATION WITH OVERDENSE PLASMA (ECS-8105966);* 24 MONTHS $47,989

JENKINS, JANICE M; *RESEARCH INITIATION: MICROCOMPUTER ARCHITECTURE AND COMMUNICATION PROBLEMS IN PREPROCESSING, ANALYSIS, AND TRANSMISSION OF THE ELECTROCARDIOGRAPHIC SIGNAL (ECS-8106010);* 24 MONTHS $47,890

WAYNE STATE UNIVERSITY

SHAW, MELVIN P; *A STUDY OF AMORPHOUS FILM DEVICES INFLUENCED BY HYDROSTATIC PRESSURE AND METAL AND SEMICONDUCTOR CONTACTS (ECS-7817666 A02);* 12 MONTHS $49,000

TOREE, EDWARD D; *THE STRUCTURE OF SUBMICRON MAGNETIC BUBBLES (ECS-7923628 A01);* 12 MONTHS $38,000

KHOO, IAM-CHOON; *OPTIC WAVE MIXING IN NEMATIC LIQUID CRYSTALS (ECS-8026775);* 12 MONTHS $39,036

MINNESOTA

UNIVERSITY OF MINNESOTA

ROBBINS, WILLIAM P; *MAGNETIC THIN FILMS FOR SURFACE ACOUSTIC WAVE DEVICES (ECS-7924366 A01);* 12 MONTHS $52,000

KAVEH, MOSTAFA, AND MUELLER, R K; *DIFFRACTION TOMOGRAPHY (ECS-7926008 A01);* 12 MONTHS $106,955

VAN DER ZIEL, A; *FLICKER NOISE IN SEMICONDUCTORS AND SEMICONDUCTOR DEVICES (ECS-8025810);* 12 MONTHS $56,375

MUELLER, R K; *SPECIALIZED RESEARCH EQUIPMENT: ACOUSTIC MICROSCOPY (ECS-8103730);* 12 MONTHS $15,500

WECHSLER, HARRY M; *TEXTURE ANALYSIS (ECS-8105168);* 24 MONTHS $46,072

HEXTER, ROBERT M, AND LITTLEJOHN, MICHAEL A; *WORKSHOP ON: COOPERATION AND SHARING AMONG MICROELECTRONICS RESEARCH CENTERS (ECS-8120824*);* 12 MONTHS $18,428

MISSISSIPPI

MISSISSIPPI STATE UNIVERSITY

WADE, THOMAS E; *1981 FOURTH BIENNIAL UNIVERSITY/GOVERNMENT/INDUSTRY MICROELECTRONICS SYMPOSIUM (ECS-8105169);* 6 MONTHS $5,950

UNIVERSITY OF MISSISSIPPI

SMITH, CHARLES E; *SPECIALIZED RESEARCH EQUIPMENT: NETWORK ANALYZER CONTROLLER (ECS-8105204);* 12 MONTHS $33,585

MISSOURI

UNIVERSITY OF MISSOURI, ROLLA

KIEFFER, JOHN C; *SOME PROBLEMS ON CHANNELS AND SOURCES IN INFORMATION THEORY (ECS-7821335 A01*);* 24 MONTHS $12,868

WASHINGTON UNIVERSITY

TARN, TZYH-JONG; *NONLINEAR AND QUANTUM SYSTEMS: REALIZATION AND CONTROL (ECS-8017184);* 24 MONTHS $84,783

BOOTHBY, WILLIAM M, AND ELLIOTT, DAVID L; *CONTROLLABILITY AND OBSERVABILITY FOR NONLINEAR SYSTEMS (ECS-8021056*);* 24 MONTHS $84,985

HUANG, HAI; *RESEARCH INITIATION: TWO NOISE CORRUPTED RECURSIVE ALGORITHMS AND THEIR APPLICATIONS IN STOCHASTIC OPTIMIZATION (ECS-8105978);* 24 MONTHS $48,000

NEW HAMPSHIRE

DARTMOUTH COLLEGE-THAYER SCHOOL OF ENGINEERING

STROHBEHN, JOHN W; *ELECTROMAGNETIC FIELDS OF ANTENNAS IN TISSUE (ECS-8025818);* 24 MONTHS $64,340

NEW JERSEY

PRINCETON UNIVERSITY

DICKINSON, BRADLEY W; *ALGORITHMS AND STRUCTURES FOR DIGITAL SIGNAL PROCESSING (ECS-7728523 A01);* 24 MONTHS $72,997

LIU, BEDE, AND THOMAS, JOHN B; *DISCRETE TIME SIGNALS AND THEIR PROCESSING (ECS-7918915 A01);* 12 MONTHS $64,450

MILES, RICHARD B; *PICOSECOND NONLINEAR RAMAN SPECTROSCOPY OF SURFACES (ECS-8017655);* 12 MONTHS $58,157

GARCIA-MOLINA, HECTOR; *RESEARCH IN RELIABLE DISTRIBUTED DATABASES (ECS-8019393);* 24 MONTHS $104,221

RUTGERS UNIVERSITY

LEE, BANSANG W; *FABRICATION AND INVESTIGATION OF III-V SEMICONDUCTOR DEVICES (ECS-8011370);* 24 MONTHS $143,651

STEVENS INSTITUTE OF TECHNOLOGY

BOESCH, FRANCIS T; *SURVIVABILITY CRITERIA FOR THE DESIGN AND ANALYSIS OF OPTIMUM LARGE-SCALE NETWORKS (ECS-8100658*);* 12 MONTHS $40,000

THRESHOLD TECHNOLOGY INC

SCOTT, PHILLIPS B; *LOW-COST, HIGH PERFORMANCE SPEECH RECOGNIZER FOR THE HANDICAPPED, PHASE II (ECS-8022376*);* 18 MONTHS $123,658

NEW MEXICO

UNIVERSITY OF NEW MEXICO

ETTER, DELORES M; *RESEARCH INITIATION: DIGITAL SIGNAL SYNCHRONIZATION USING AN ADAPTIVE GENETIC ALGORITHM (ECS-8105974);* 24 MONTHS $47,599

NEW YORK

BROOKLYN COLLEGE

ZIEGLER, CHAIM; *RESEARCH INITIATION: PERFORMANCE EVALUATION AND CAPACITY ASSIGNMENT IN COMPUTER NETWORKS (ECS-8105963);* 24 MONTHS $47,942

CLARKSON COLLEGE OF TECHNOLOGY

MCGRATH, PAUL B; *AN ULTRA HIGH SPEED LIQUID BREAKDOWN STUDY (ECS-7914622 A01);* 12 MONTHS $43,553

COLUMBIA UNIVERSITY

SCHWARTZ, MISCHA, AND STERN, THOMAS E; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH: DATA NETWORKS AND SATELLITE COMMUNICATIONS (ECS-7925092 A01*);* 12 MONTHS $46,116

KARATZAS, IOANNIS; *OPTIMAL STOCHASTIC CONTROL OF DIFFUSION PROCESSES (MCS-8103435*);* 24 MONTHS $15,619

SEN, AMIYA K; *SPECIALIZED RESEARCH EQUIPMENT: SIGNAL CORRELATION FOR PLASMA STUDIES (ECS-8104559);* 12 MONTHS $16,000

LAZAR, AUREL; *RESEARCH INITIATION: NONLINEAR EST BASED ON DISTRIBUTED PROCESSING W/COUNTING POINT PROCESS OBSERVATIONS: APPLICATION TO COMPUTER COMM NETWORKS & AUDITORY NEURAL CODING (ECS-8106476);* 24 MONTHS $48,000

CORNELL UNIVERSITY

WOLF, EDWARD D; *NATIONAL RESEARCH AND RESOURCE FACILITY FOR SUBMICRON STRUCTURES (ECS-7709688 A04*);* 15 MONTHS $1,005,000

CARLIN, HERBERT J; *DIELECTRIC WAVE GUIDE NETWORKS (ECS-7811525 A02);* 12 MONTHS $67,390

SIEGEL, BENJAMIN M; *DIGITAL IMAGE PROCESSING OF HIGH RESOLUTION ELECTRON MICROSCOPE IMAGES (ECS-7909093 A02);* 12 MONTHS $100,050

BLAND, ROBERT G; *STUDIES IN LINEAR PROGRAMMING (ECS-7910807 A02);* 12 MONTHS $37,000

BERGER, TOBY; *STUDIES IN MULTITERMINAL COMMUNICATION INFORMATION AND DECISION THEORY (ECS-7921976 A01);* 12 MONTHS $65,790

MAHR, HERBERT, AND TANG, C L; *EXPERIMENTAL STUDY TOWARDS CONSTRUCTION OF SOFT X-RAY LASERS (ECS-8001766 A01);* 12 MONTHS $83,168

SCHRUBEN, LEE W; *SIMULATION DATA REQUIREMENTS (ECS-8023177)*; 12 MONTHS $16,010

HAMMER, DAVID A; *SPECIALIZED RESEARCH EQUIPMENT: OSCILLOGRAPH DIGITIZER (ECS-8102911)*; 12 MONTHS $30,000

JACKSON, PETER L; *RESEARCH INITIATION: SOLVING STAIRCASE SYSTEMS USING SYMMETRIC BASIS DECOMPOSITION (ECS-8106455)*; 12 MONTHS $22,552

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

TODD, MICHAEL J; *SPECIAL STRUCTURE IN SIMPLICIAL ALGORITHMS (ECS-7921279 A01*)*; 12 MONTHS $14,618

NEMHAUSER, GEORGE L; *TOPICS IN COMBINATORIAL OPTIMIZATION AND ITS APPLICATIONS (ECS-8005350 A01)*; 12 MONTHS $72,618

TAQQU, MURAD S; *NON-GAUSSIAN SELF-SIMILAR PROCESSES (ECS-8015585)*; 12 MONTHS $34,131

JOHNSON, C RICHARD; *DIRECT ADAPTIVE CONTROL OF DISCRETE NON-MINIMUM PHASE PLANTS (ECS-8120519)*; 10 MONTHS $12,905

CUNY GRADUATE SCHOOL AND UNIVERSITY CENTER

AUSLANDER, LOUIS; *INDUSTRY/UNIVERSITY COOPERATIVE PROGRAM (IUC): 'THE ALGORITHMS OF DIGITAL SIGNAL PROCESSING' (ECS-7921291 A01*)*; 12 MONTHS $30,011

INSTITUTE OF ELECTRICAL & ELECTRONIC ENGRS INC

LAWRENCE, VICTOR B; *THE FIRST INTERNATIONAL WORKSHOP ON VLSI IN COMMUNICATIONS (ECS-8111864)*; 12 MONTHS $15,000

GERSHO, ALLEN; *IEEE COMMUNICATIONS SECURITY WORKSHOP; AUGUST 24-26, 1981; SANTA BARBARA, CALIFORNIA (ECS-8117145*)*; 6 MONTHS $3,600

NEW YORK UNIVERSITY

SCHWARTZ, JACOB T; *THE VLSI SOFTWARE ARCHITECTURES LABORATORY ORIENTED TOWARD LARGE-SCALE PARALLELISM (MCS-7921258 A01*)*; 12 MONTHS $77,000

SPERLING, GEORGE; *LOW BANDWIDTH VIDEO COMMUNICATION FOR THE DEAF (ECS-8017189)*; 12 MONTHS $198,433

POLYTECHNIC INSTITUTE OF NEW YORK

TAMIR, THEODOR; *HIGH ABSOPTION OF ELECTROMAGNETIC RADIATION BY STRUCTURES (ECS-7902879 A01)*; 12 MONTHS $45,290

GARETZ, BRUCE A; *MOLECULAR TWO-PHOTON POLARIZATION SPECTROSCOPY (ECS-7908109 A01)*; 12 MONTHS $38,594

SHAW, LEONARD; *NONLINEAR CONTROLLERS FOR LINEAR SYSTEMS (ECS-8017865)*; 12 MONTHS $27,623

WANG, WEN CHUNG, SCHACHTER, HARRY, AND ONISHI, SHINZO; *THIN FILM REAL TIME CONVOLVERS AND CORRELATORS (ECS-8100456)*; 12 MONTHS $55,104

OLINER, ARTHUR A; *SPECIALIZED RESEARCH EQUIPMENT: VAX COMPUTATIONAL FACILITY (ECS-8107862)*; 12 MONTHS $65,300

RENSSELAER POLYTECHNIC INSTITUTE

DAS, PANKAJ K; *THIN FILM RESIDUAL STRESS MEASUREMENTS USING SAW WITH APPLICATIONS IN SILICON TECHNOLOGY (ECS-7918211 A01)*; 12 MONTHS $42,000

BORREGO, JOSE M; *OPTICAL-MICROWAVE INTERACTIONS IN MESFETS AND IMPATTS (ECS-7924399 A01)*; 12 MONTHS $65,700

WOODS, JOHN W, AND KAUFMAN, HOWARD; *TWO-DIMENSIONAL RECURSIVE ESTIMATION WITH APPLICATION TO REAL-TIME FILTERING OF IMAGES (ECS-8012569*)*; 12 MONTHS $59,295

BALAS, MARK J, AND KAUFMAN, HOWARD; *PARAMETER ESTIMATION AND ADAPTIVE CONTROL OF LARGE SCALE AND DISTRIBUTED PARAMETER SYSTEMS (ECS-8016173)*; 12 MONTHS $58,892

ROY, ROB J, KAUFMAN, HOWARD, AND SHIN, KANG G; *ADAPTIVE CONTROL OF CARDIOVASCULAR DYNAMICS (ECS-8016225)*; 12 MONTHS $76,055

FRANKLIN, WILLIAM F; *EFFICIENT COMPUTER AIDED DESIGN ALGORITHMS (ECS-8021504)*; 24 MONTHS $69,000

TIERSTEN, HARRY F, MCDONALD, JOHN F, AND DAS, PANKAJ K; *MONOLITHIC MOSAIC TRANSDUCERS UTILIZING TRAPPED ENERGY MODES (ECS-8024297)*; 12 MONTHS $34,880

SARIDIS, GEORGE N; *ADVANCED INTELLIGENT CONTROL FOR TRAINABLE MANIPULATORS (ECS-8116834)*; 12 MONTHS $58,475

FREEMAN, HERBERT; *A WORKSHOP ON RESEARCH DIRECTIONS IN COMPUTER ENGINEERING (ECS-8119474)*; 12 MONTHS $10,280

STATE UNIVERSITY AT BINGHAMTON

KLIR, GEORGE J; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY. COMPUTERAIDED ANALYSIS OF RECONSTRUCTABILITY OF MANY-DIMENSIONAL RELATIONS (ECS-7818954 A03*)*; 12 MONTHS $28,500

STATE UNIVERSITY AT BUFFALO

TANG, GREGORY Y, ANDERSON, DUWAYNE M, MAYNE, ROGER W, RUMER, RALPH R, AND SHAW, DAVID T; *SPECIALIZED ENGINEERING GRANT REQUEST FOR A DIGITAL IMAGE ANALYSIS SYSTEM (ECS-8026499)*; 12 MONTHS $60,000

KWOK, HOI-SING; *RESEARCH INITIATION: STUDY OF LASER-MATTER INTERACTIONS AT HIGH INTENSITIES (ECS-8106007)*; 24 MONTHS $48,000

STATE UNIVERSITY AT STONY BROOK

RAPPAPORT, STEPHEN S; *MULTIPLE ACCESS AND CHANNEL SHARING SCHEMES (ECS-8025312)*; 24 MONTHS $80,013

SHAPIRO, STEPHEN D; *THE HOUGH TRANSFORM: PROPERTIES, IMPLEMENTATION, AND GENERALIZATION FOR IMAGE PROCESSING (ECS-8106544)*; 12 MONTHS $54,995

SYRACUSE UNIVERSITY

KOWEL, STEPHEN T, KORNREICH, PHILIPP G, AND MARTIN, GEORGE C; *POLYMERIC DISPLAY DEVICES (ECS-7821062 A02)*; 12 MONTHS $45,168

HARRINGTON, ROGER F; *ELECTROMAGNETIC COUPLING THROUGH HOLES, SLOTS, AND CAVITIES IN THICK CONDUCTORS (ECS-7921354 A01)*; 12 MONTHS $30,060

CHENG, DAVID K; *WALSH-FUNCTION REPRESENTATION AND ERROR ANALYSIS OF DIGITAL SYSTEMS WITH STOCHASTIC INPUTS (ECS-8020301)*; 24 MONTHS $60,071

UNIVERSITY OF ROCHESTER

MOORE, DUNCAN T; *GRADIENT INDEX OPTICAL SYSTEMS (ECS-7807457 A03)*; $10,395

JACOBSEN, EDWARD H; *SUPPLEMENTAL EQUIPMENT REQUEST - IN REFERENCE TO GRANT ECS-7825176 (ECS-7825176 A02)*; $8,795

JACOBSEN, EDWARD H; *DEVELOPMENT OF LOW-ABERRATION ELECTROSTATIC FOIL LENS FOR HIGH-RESOLUTION ELECTRON OPTICS (ECS-7825176 A03)*; 12 MONTHS $40,000

WAAG, ROBERT C, AND LIU, C N; *INDUSTRY/UNIVERSITY COOPERATIVE: NEW ULTRASOUND TISSUE PARAMETERS FOR IMPROVED IMAGING (ECS-8017683*)*; 12 MONTHS $104,649

GAVISH, BEZALEL; *ROUTING AND SCHEDULING IN DISTRIBUTION AND COLLECTION SYSTEMS (ECS-8020644*)*; 24 MONTHS $65,122

VOELCKER, HERBERT B, AND REQUICHA, ARISTIDES A; *RESEARCH ON GEOMETRIC MODELLING (ECS-8104646)*; 12 MONTHS $146,455

BARMISH, B R; *STABILIZATION OF UNCERTAIN DYNAMICAL SYSTEMS (ECS-8108804)*; 12 MONTHS $36,285

MOORE, DUNCAN T; *TOPICAL MEETING ON GRADIENT-INDEX OPTICAL IMAGING SYSTEMS, HONOLULU, HAWAII, MAY 4-6, 1981 (ECS-8108811)*; 6 MONTHS $3,500

NORTH CAROLINA

DUKE UNIVERSITY

SMITH, CONNIE U; *RESEARCH INITIATION: EXTENSIONS TO A SOFTWARE PERFORMANCE PREDICTION METHODOLOGY: MEMORY ANALYSIS TECHNIQUES (ECS-8105973)*; 24 MONTHS $45,778

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

DUNN, JOSEPH C; *THE BEHAVIOR OF ITERATIVE MINIMIZING SCHEMES NEAR SINGULAR AND NONSINGULAR OPTIMAL CONTROLS (ECS-8005958 A01)*; 12 MONTHS $25,766

KIM, JIN J; *INVESTIGATIONS OF THE COPPER VAPOR LASER EXCITED BY AN ULTRAFAST ELECTRICAL DISCHARGE (ECS-8021507)*; 12 MONTHS $37,254

MERSHON, DONALD H; *USEFULNESS OF AUDITORY CUES FOR SPATIAL PERCEPTION IN BLIND POPULATIONS (08S-8023787)*; 12 MONTHS $8,960

DAVIS, ROBERT F; *ACQUISITION OF AN ION MICROPROBE (08R-8107499*)*; 12 MONTHS $20,000

O'NEAL, J B; *PLANNING GRANT FOR UNIVERSITY/INDUSTRY COOPERATIVE RESEARCH CENTER FOR COMMUNICATIONS AND SIGNAL PROCESSING (ISI-8112517*)*; 12 MONTHS $5,000

OHIO

CASE WESTERN RESERVE UNIVERSITY

KAPOOR, VIKRAM J; *CHARGE-COUPLED DEVICES WITH SUBMICRON FEATURES (ECS-8010880 A01)*; 12 MONTHS $54,215

MORTIMER, J THOMAS; *URINARY SPHINCTER CONTROL BY COLLISION BLOCK TECHNIQUES (ECS-8017190)*; 24 MONTHS $158,332

COLLIN, ROBERT E; *CRYOGENIC FACILITY (ECS-8104558)*; 12 MONTHS $9,100

SOLOW, DANIEL; *RESEARCH INITIATION: A CONSTRAINED OPTIMIZATION APPROACH TO SOLVING CERTAIN SYSTEMS OF EQUATIONS (ECS-8105991)*; 24 MONTHS $38,915

FUNG, CLIFFORD D; *RESEARCH INITIATION: FORMATION OF BURIED INSULATORS IN SILICON BY OXYGEN AND NITROGEN IMPLANTATION (ECS-8106693)*; 24 MONTHS $48,000

WALKER, BRUCE K; *RESEARCH INITIATION: COMPLEXITY REDUCTION TECHNIQUES FOR GENERALIZED MODELS OF REDUNDANT SYSTEMS (ECS-8106696)*; 24 MONTHS $47,996

OHIO STATE UNIVERSITY

MCGHEE, ROBERT B, KLEIN, C A, AND KOOZEKANANI, SAID H; *DYNAMICS & CONTROL OF MANIPULATION & LEGGED LOCOMOTION SYSTEMS (ECS-7818957 A02)*; 12 MONTHS $93,501

HEMAMI, HOOSHANG; *MODELLING, CONTROL, AND SIMULATION OF HUMAN LOCOMOTION (ECS-7824440 A02)*; 12 MONTHS $50,000

PETERS, LEON; *A THEORETICAL AND EXPERIMENTAL STUDY OF A POTENTIAL MOBILE SYSTEM FOR EVALUATING ELECTRICAL PARAMETERS OF THE EARTH (ECS-8020636)*; 24 MONTHS $59,999

UNIVERSITY OF TOLEDO

TAI, CHEN-YU; *LEVEL CROSSING AND TRANSIENT EFFECTS IN RESONANT HARMONIC GENERATION IN I2 (ECS-8109546*)*; 12 MONTHS $45,574

OKLAHOMA

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

CHEUNG, JOHN Y; *A PROPOSAL FOR ADVANCED PROCESSOR CHIP DESIGN LABORATORY (ECS-8103729)*; 12 MONTHS $34,500

OREGON

OREGON GRADUATE CENTER

SWANSON, LYNWOOD W; *SUPPORT OF THE 28TH INTERNATIONAL FIELD EMISSION SYMPOSIUM; JULY 27-31, 1981 (ECS-8108062)*; 4 MONTHS $4,800

OREGON STATE UNIVERSITY

BHATTACHARYA, P K, AND OWEN, S J T; *ELECTRICAL PROPERTIES OF ANNEALED AND IMPLANTED GALLIUM ARSENIDE (ECS-8011917)*; 12 MONTHS $48,233

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY-CARNEGIE INSTITUTE OF TECHNOLOGY

THOMAS, DONALD E, AND KRYDER, MARK H; *COMPUTER ARCHITECTURE AND MAGNETIC BUBBLE MEMORIES: AN INVESTIGATION OF SYSTEM TECHNOLOGY LEVEL DESIGN CONSIDERATIONS (ECS-8017700)*; 12 MONTHS $89,094

CARNEGIE-MELLON UNIVERSITY

DIRECTOR, S W, AND SIEWIOREK, DANIEL P; *MULTI-LEVEL COMPUTER AIDED DESIGN OF VLSI DIGITAL SYSTEMS (ECS-7825755 A02*)*; 12 MONTHS $88,200

BALAS, EGON; *INTEGER AND COMBINATORIAL PROGRAMMING (ECS-7903506 A02*)*; 12 MONTHS $22,000

TUMA, DAVID T; *INVESTIGATION OF ELECTRICAL BREAKDOWN IN VACUUM (ECS-7908417 A01*)*; 12 MONTHS $63,686

KRYDER, MARK H, AND CHARP, STANLEY H; *INVESTIGATION OF CHARGED WALLS IN MAGNETIC BUBBLE DOMAIN DEVICES (ECS-7912677 A01)*; 12 MONTHS $109,683

SANDERSON, ARTHUR C; *SIGNAL PROCESSING RESEARCH UTILIZING A SYNCHRONOUS MULTIPROCESSOR COMPUTER SYSTEM (ECS-7923893 A01)*; 12 MONTHS $73,560

KUNG, H T, AND SPROULL, ROBERT F; *CONFERENCE ON VLSI DESIGN: THEORY AND PRACTICE AT CARNEGIE-MELLON UNIVERSITY SEPTEMBER, 1981 (MCS-8008165*)*; 12 MONTHS $1,606

MILNES, ARTHUR G; *DEFECTS AND RECOMBINATION IN CADMIUM TELLURIDE (ECS-8012890*)*; 12 MONTHS $23,954

MILNES, ARTHUR G; *STUDY OF GALLIUM ARSENIDE BIPOLAR TRANSISTORS GROWN BY MOLECULAR BEAM EPITAXY (ECS-8013773)*; 24 MONTHS $116,525

FONTANA, ROBERT J; *A DATA COMPRESSION SYSTEM FOR SPEECH BASED ON A COMPOSITE MODEL (ECS-8016227)*; 24 MONTHS $65,396

CHANG, HSU; *INTELLIGENT BUBBLE STORAGE FOR ROBOTICS (ECS-8016642)*; 12 MONTHS $135,000

KORTANEK, KENNETH O, AND BAYBARS, ILKER; *POLYEXTREMAL OPTIMIZATION IN ECONOMIC AND ENGINEERING SYSTEMS (ECS-8026777*)*; 12 MONTHS $43,613

LEHOCZKY, JOHN P; *A NEW APPROACH TO THE EVALUATION AND OPTIMIZATION OF THE PERFORMANCE OF QUEUEING SYSTEMS (ECS-8101576*)*; 12 MONTHS $22,000

HOCHBAUM, DORIT S; *RESEARCH INITIATION: ANALYSIS AND DESIGN OF HEURISTICS FOR HARD PROBLEMS (ECS-8106439)*; 24 MONTHS $46,712

DREXEL UNIVERSITY

JARON, DOV; *AN ENGINEERING STUDY OF THE OPTIMIZATION OF IN-SERIES CARDIAC ASSISTANCE (ECS-7924354 A01)*; 12 MONTHS $75,000

PEDERSEN, PEDER C; *ULTRASOUND CHARACTERIZATION OF BIOLOGICAL TISSUE (ECS-8025311)*; 12 MONTHS $60,500

LEHIGH UNIVERSITY

DAHLKE, WALTER E; *EQUIPMENT SUPPLEMENTAL FOR TUNNELING IN MIS STRUCTURES (ECS-8112852)*; 12 MONTHS $15,000

PENNSYLVANIA STATE UNIVERSITY

GESELOWITZ, DAVID B; *SIMULATION STUDIES OF THE MAGNETOCARDIOGRAM (ECS-8018168)*; 12 MONTHS $46,768

VEDAM, KUPPUSWAM Y; *HOLOGRAPHIC ELLIPSOMETRY AND ITS APPLICATIONS (ECS-8100487)*; 12 MONTHS $62,860

YU, FRANCIS T; *PROCESSING OF ULTRASONIC DOPPLER FLOWMETER SIGNALS USING REAL-TIME OPTICAL TECHNIQUE FOR MEDICAL DIAGNOSIS (ECS-8103171)*; 12 MONTHS $30,800

GAUMOND, ROGER P; *RESEARCH INITIATION: ANALYTIC MODELS OF SURFACE POTENTIAL DISTRIBUTION GENERATED BY BRAINSTEM NEURAL RESPONSES TO ACOUSTIC STIMULATION (ECS-8106006)*; 24 MONTHS $48,000

BARATTA, ANTHONY J; *RESEARCH INITIATION: EFFECTS OF RADIATION DAMAGE ON THE ELECTRONIC STRUCTURE OF COPPER AS MEASURED BY MAGNETIC INDUCED SURFACE STATE RESONANCES (ECS-8106438)*; 24 MONTHS $48,000

UNIVERSITY OF PENNSYLVANIA

ZEMEL, JAY N; *RESEARCH ON CHEMICALLY SENSITIVE DEVICE STRUCTURES (ECS-7924554 A01)*; 12 MONTHS $57,992

KOROSTOFF, EDWARD, DAVIDOVITCH, Z, AND FARRINGTON, GREGORY C; *IDENTIFICATION OF THE RELEVANT PARAMETERS AND THEIR MAGNITUDES FOR ELECTRICAL STIMULATION OF BONE REMODELING (ECS-8006137 A01*)*; 12 MONTHS $104,574

POLLACK, SOLOMON R; *ELECTROKINETIC EFFECTS IN BONE (ECS-8017856)*; 12 MONTHS $53,849

LAUKS, IMANTS; *INORGANIC RESISTS (ECS-8023767)*; 12 MONTHS $48,365

GOLDWASSER, SAMUEL M; *RESEARCH INITIATION: PROCESSOR STRUCTURES FOR THE DISPLAY OF MULTIFORMAT DATA (ECS-8105997)*; 24 MONTHS $48,000

BAJCSY, RUZENA K; *SCENE UNDERSTANDING VIA ACTIVE SENSORS (MCS-8106176*)*; 12 MONTHS $25,000

UNIVERSITY OF PITTSBURGH

BOSTON, J ROBERT; *EVALUATION OF WIENER FILTERING FOR ACQUISITION OF BRAINSTEM AUDITORY EVOKED POTENTIALS (ECS-8025746)*; 12 MONTHS $33,813

CHAPARRO, LUIS F; *RESEARCH INITIATION: MODIFIED LEAST-SQUARES RATIONAL MODELLING OF 2-D DISCRETE SYSTEMS AND ITS APPLICATIONS TO IMAGE PROCESSING (ECS-8105988)*; 12 MONTHS $23,034

RHODE ISLAND

BROWN UNIVERSITY

KUSHNER, HAROLD J; *RESEARCH ON STOCHASTIC SYSTEMS AND STABILITY THEORY AND APPLICATIONS (ECS-7713946 A03*)*; 12 MONTHS $34,488

NURMIKKO, ARTO V, AND MORSE, THEODORE F; *A WAVELENGTH TUNABLE ULTRASHORT PULSE FOR INFRARED LASER (ECS-8017519)*; 12 MONTHS $68,770

SAVAGE, JOHN E; *APPLIED COMPUTATIONAL COMPLEXITY (ECS-8024637*)*; 24 MONTHS $53,011

PEARSON, ALLAN E; *IDENTIFICATION OF NONLINEAR DIFFERENTIAL SYSTEMS (ECS-8111219)*; 12 MONTHS $40,700

GORDON RESEARCH CONFERENCES

CRUICKSHANK, ALEXANDER M; *CONFERENCE ON NONLINEAR OPTICS AND LASERS AT WOLFEBORO, NEW HAMPSHIRE, AUGUST 3 - 7, 1981 (ECS-8102925)*; 12 MONTHS $4,000

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

CANNON, ROBERT L; *TOWARDS A ROBOT SEDIMENTARY PETROGRAPHER: DETERMINATION OF ALGORITHMIC PARAMETERS FOR A MICROSCANNING SYSTEM (ECS-8009825)*; 24 MONTHS $87,883

WIERZBA, GREGORY M; *RESEARCH INITIATION: SYNTHESIS OF TEMPERATURE COMPENSATED AND TEMPERATURE SENSING NETWORKS (ECS-8106460)*; 24 MONTHS $48,000

TENNESSEE

UNIVERSITY OF TENNESSEE AT KNOXVILLE

ALEXEFF, IGOR; *ENGINEERING ASPECTS OF PLASMA WAVES (ECS-7803400 A02)*; 12 MONTHS $34,500

ALEXEFF, IGOR; *SPECIALIZED RESEARCH EQUIPMENT: MILLIMETER WAVE DETECTORS (ECS-8101817)*; 12 MONTHS $2,800

TEXAS

NORTH TEXAS STATE UNIVERSITY

VAN STRYLAND, ERIC W, SOILEAU, M J, AND SMIRL, A L; *NONLINEAR PHOTOACOUSTIC SPECTROSCOPY OF SOLIDS (ECS-8105513)*; 12 MONTHS $50,000

RICE UNIVERSITY

MIELE, ANGELO; *COMPUTATIONAL METHODS FOR STATIC AND DYNAMIC SYSTEMS AND ENGINEERING APPLICATIONS (ECS-7918667 A02)*; 12 MONTHS $53,162

KIM, DAE MANN; *EXPERIMENTAL AND THEORETICAL INVESTIGATION OF NONLINEAR DYNAMIC HEAT AND MASS TRANSPORT IN LASER ANNEALED SEMICONDUCTORS (ECS-8009119)*; 24 MONTHS $75,000

BURRUS, CHARLES S, AND PARKS, THOMAS W; *EFFICIENT STRUCTURES FOR DIGITAL SIGNAL PROCESSING (ECS-8100453)*; 12 MONTHS $67,690

PEARSON, J B; *DESIGN OF MULTIVARIABLE CONTROL SYSTEMS (ECS-8102895)*; 12 MONTHS $39,937

TITTEL, FRANK K; *SPECIALIZED RESEARCH EQUIPMENT: QUANTUM ELECTRONICS INSTRUMENTATION (ECS-8103736)*; 12 MONTHS $27,000

SOUTHERN METHODIST UNIVERSITY

LINN, CATHY J; *RESEARCH INITIATION: IMPROVEMENTS IN SYSTEM PERFORMANCE THROUGH ALTERNATIVE CACHE ARCHITECTURES (ECS-8106466)*; 24 MONTHS $48,000

PRICE, CAMILLE C; *RESEARCH INITIATION: THE ASSIGNMENT OF COMPUTATIONAL TASKS AMONG DISTRIBUTED PROCESSORS WITH LIMITED MEMORIES (ECS-8106686)*; 24 MONTHS $48,000

LINN, JOSEPH L; *RESEARCH INITIATION: COMPACT PARSER CONSTRUCTION VIA INCREASED USE OF PREDICTION (ECS-8106690)*; 24 MONTHS $48,000

TEXAS A & M UNIVERSITY

TSANG, LEUNG; *MICROWAVE REMOTE SENSING OF EARTH TERRAIN (ECS-8014579)*; 12 MONTHS $40,000

GIBSON, JERRY D; *SEQUENTIALLY ADAPTIVE NOISE SPECTRAL SHAPING AND BACKWARD ADAPTIVE PREDICTION FOR DIFFERENTIAL ENCODING SYSTEMS (ECS-8020304)*; 24 MONTHS $60,000

FISCHER, THOMAS R; *RESEARCH INITIATION: OPTIMAL QUANTIZED CONTROL WITH COMMUNICATION CONSTRAINTS (ECS-8106699);* 24 MONTHS $46,656

TEXAS A & M UNIVERSITY-TEXAS ENGINEERING EXPERIMENT STATION

HOWZE, J W; *SYNTHESIS OF LINEAR MULTIVARIABLE CONTROL SYSTEMS FOR RESPONSE INSENSITIVITY (ECS-7918210 A01);* 12 MONTHS $36,200

TEXAS TECH UNIVERSITY

CHAO, KWONG S; *CONTINUATION METHODS IN NONLINEAR NETWORK ANALYSIS (ECS-8103630);* 24 MONTHS $44,751

UNIV OF TEXAS AT AUSTIN

LAM, SIMON S; *RESOURCE ALLOCATION FOR COMPUTER COMMUNICATION NETWORKS (ECS-7801803 A02*);* 24 MONTHS $75,440

AGGARWAL, J K; *COMPUTATIONAL MODELS FOR PROCESSING SEQUENCES OF BIOENGINEERING IMAGES (ECS-8021511);* 12 MONTHS $65,000

MARCUS, STEVEN I; *LIE ALGEBRAIC METHODS IN NONLINEAR ESTIMATION (ECS-8022033);* 24 MONTHS $73,790

CHARNES, A, AND VICK, JAMES; *'81 INTERNATIONAL SYMPOSIUM ON SEMI-INFINITE PROGRAMMING AND APPLICATIONS (ECS-8102912*);* 12 MONTHS $6,000

UNIV OF TEXAS AT DALLAS

CANTRELL, CYRUS D; *INFLUENCE OF COHERENT OPTICAL PROPAGATION EFFECTS ON MULTIPLE-PHOTON EXCITATION OF POLYATOMIC MOLECULES (CHE-8017324*);* 24 MONTHS $30,000

CANTRELL, CYRUS D; *INFLUENCE OF COHERENT OPTICAL PROPAGATION EFFECTS ON MULTIPLE-PHOTON EXCITATION OF POLYATOMIC MOLECULES (CHE-8017324 A01*);* $4,000

COLLINS, CARL B, AND LEE, FRANCIS W; *INVESTIGATION OF THE FEASIBILITY OF THE ELECTRON BEAMEXCITED HIGH PRESSURE CHARGE TRANSFER LASER (ECS-8018730);* 12 MONTHS $54,786

PANG, JONG-SHI; *LARGE-SCALE AND GENERALIZED COMPLEMENTARITY SYSTEMS (ECS-8114571*);* 12 MONTHS $18,564

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

NOORBEHESHT, BEHZAD; *OPTO-ACOUSTIC IMAGING RESEARCH (ECS-7913259 A03);* 12 MONTHS $60,120

UTAH

UNIVERSITY OF UTAH

JACOBSEN, STEPHEN C; *AN ADAPTIVE FILTER FOR ELECTROMYOGRAPHIC SIGNALS (ECS-8016232);* 24 MONTHS $90,000

VIRGINIA

OLD DOMINION UNIVERSITY

ZAHORIAN, STEPHEN A; *RESEARCH INITIATION: LOW REDUNDANCY ENCODING OF SPEECH SPECTRA (ECS-8106570);* 24 MONTHS $47,754

SOCIETY FOR OPTICAL & QUANTUM ELECTRONICS

CORCORAN, VINCENT J; *SUPPORT OF THE INTERNATIONAL CONFERENCE ON LASERS 1980 (ECS-8024888);* 12 MONTHS $5,000

UNIVERSITY OF VIRGINIA

WHITE, CHELSEA C; *MARKOV DECISION PROCESSES: ISSUES OF VALIDITY AND TRACTABILITY (ECS-8018266);* 24 MONTHS $65,666

MATTAUCH, ROBERT J; *OPTIMIZATION OF NOISE AND CUTOFF FREQUENCY OF SCHOTTKY BARRIER DIODES FOR USE AT SUB-MILLIMETER WAVELENGTHS (ECS-8022937);* 12 MONTHS $104,754

PARRISH, E A; *EQUIPMENT FOR PATTERN RECOGNITION, SIGNAL AND IMAGE PROCESSING (ECS-8103740);* 12 MONTHS $63,190

BATCHMAN, T E; *SUBMINIATURE IMPLANTABLE ELECTRIC FIELD PROBES FOR MICROWAVE DOSIMETRY AND BIOLOGICAL SYSTEMS (ECS-8103745);* 12 MONTHS $53,849

KAZAKOS, DEMETRIOS; *NEW APPROACHES TO DIGITAL PHASE MODULATION (ECS-8105505);* 12 MONTHS $24,999

VIRGINIA POLYTECHNIC INSTITUTE

CLAUS, RICHARD O; *ULTRASONIC LEAKY AND STONELEY INTERFACE WAVES ON SOLID-SOLID BOUNDARIES (ECS-7925340 A01);* 12 MONTHS $44,534

SHERALI, HANIF D; *RESEARCH INITIATION: THE MIXED-INTEGER BILINEAR PROGRAMMING PROBLEM WITH EXTENSIONS TO ZERO-ONE QUADRATIC PROGRAMS (ECS-8103732);* 12 MONTHS $23,290

WASHINGTON

UNIVERSITY OF WASHINGTON

MEDITCH, JAMES S; *OPTIMIZATION AND CONTROL OF LARGE-SCALE NETWORKS (ECS-8011362*);* 12 MONTHS $36,803

PIETRZYK, Z A, AND VLASES, GEORGE C; *INTERACTION OF STRONG ELECTROMAGNETIC WAVES WITH PLASMAS (ECS-8012997);* 12 MONTHS $89,998

WASHINGTON STATE UNIVERSITY

DAIGLE, JOHN N; *RESEARCH INITIATION: QUEUEING ANALYSIS OF MULTIPROCESSOR, MULTIPRIORITY TASK ORIENTED COMMUNICATION PROCESSING SYSTEM (ECS-8106687*);* 24 MONTHS $59,998

WISCONSIN

MEDICAL COLLEGE OF WISCONSIN

ACKMANN, JAMES J; *STUDIES OF THE AC ELECTRICAL BEHAVIOR OF HETEROGENEOUS COMPOSITE BIOLOGICAL SYSTEMS (ECS-7913163 A01);* 12 MONTHS $48,876

UNIVERSITY OF WISCONSIN-MADISON

SCHARER, JOHN E; *ION CYCLOTRON HARMONIC AND NONLINEAR ELECTRON CYCLOTRON PLASMA WAVE STUDIES (ECS-7920153 A01);* 12 MONTHS $51,720

VANDERHEIDEN, GREGG C; *ESTABLISHMENT OF COMMON INTERCONNECTOR FORMATS FOR ELECTRONIC COMMUNICATION AND CONTROL AIDS FOR SEVERELY HANDICAPPED INDIVIDUALS (ECS-8006480);* 12 MONTHS $114,596

SALEH, BAHAA E; *RESTORATION OF BILINEARLY DISTORTED IMAGES (ECS-8007111);* 24 MONTHS $76,770

EMMERT, GILBERT A; *EXPERIMENTAL INVESTIGATION OF PLASMA INSTABILITIES (ECS-8105482);* 12 MONTHS $49,600

TATARONIS, JOHN A; *LOW FREQUENCY WAVE PROPAGATION STUDIES IN THREE-DIMENSIONAL GEOMETRY (ECS-8110038);* 12 MONTHS $38,000

UNIVERSITY OF WISCONSIN-MILWAUKEE

LEVY, MOISES; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH: INVESTIGATIONS OF MAGNETIC FILMS FOR DEVELOPMENT OF VARIABLE AMPLITUDE AND FREQUENCY SAW FILTERS (ECS-8001773 A01*);* 12 MONTHS $14,998

BRANDT, WERNER W; *BASIC STUDIES CONCERNING PLASMA ETCHING (ECS-8010785);* 12 MONTHS $43,966

SAHIN, IZZET; *ANALYSIS OF CONTINUOUS REVIEW (S,S) INVENTORY SYSTEMS WITH LEAD TIMES (ECS-8011916 A01);* 12 MONTHS $14,850

CHEMICAL AND PROCESS ENGINEERING

ALABAMA

UNIVERSITY OF ALABAMA

APRIL, GARY C; *CHEMICALS FROM WOOD BY ORGANIC SOLVENT DELIGNIFICATION (CPE-8015591);* 12 MONTHS $59,072

ARIZONA

ARIZONA STATE UNIVERSITY

BERMAN, NEIL S; *TURBULENT MIXING IN HOMOGENEOUS AND NON-HOMOGENEOUS DILUTE POLYMER SOLUTIONS (CPE-8022433);* 12 MONTHS $39,838

UNIVERSITY OF ARIZONA

PALUSINSKI, OLGIERD A; *MODELING AND SIMULATION OF TRANSIENT ISOELECTRIC FOCUSING (CPE-8103079);* 24 MONTHS $79,901

ARKANSAS

UNIVERSITY OF ARKANSAS FAYETTEVILLE

BLYHOLDER, GEORGE; *ALKYL MIGRATION REACTION STEPS ON CATALYST SURFACES (CPE-8105472);* 12 MONTHS $46,832

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

LEAL, L GARY; *FLUID MECHANICS OF BUBBLES, DROPS, AND RIGID PARTICLES (MEA-8003485 A01*);* 12 MONTHS $30,000

BAILEY, JAMES E; *STUDIES OF THE DYNAMICS OF INDIVIDUAL CELLS AND MICROBIAL POPULATIONS (CPE-8011454 A01);* 12 MONTHS $54,273

WEINBERG, W HENRY; *INELASTIC ELECTRON TUNNELING SPECTROSCOPIC STUDIES OF METAL TETRAHYDROBORATES & ORGANOMETALLIC POLYMERIZATION CATALYSIS (CPE-8024597*);* 12 MONTHS $41,582

SRI INTERNATIONAL

LAINE, RICHARD M; *HOMOGENEOUS CATALYSIS WITH CARBON MONOXIDE AND WATER (CPE-7825069 A02);* 12 MONTHS $55,569

HILDEBRAND, DONALD L; *TRACE ELEMENT DISTRIBUTION IN COPPER SMELTING (CPE-7912296 A02);* 12 MONTHS $82,302

WISE, HENRY; *THERMODYNAMIC PROPERTIES AND CHEMICAL REACTIVITIES OF SURFACE CARBON SPECIES IN CATALYTIC HYDROCARBON SYNTHESIS (CPE-8008803 A01);* 12 MONTHS $60,697

CROSLEY, DAVID R; *RESEARCH IN LASER SPECTROSCOPY FOR COMBUSTION (CPE-8017521);* 12 MONTHS $92,970

STANFORD UNIVERSITY

HANSON, RONALD K, AND KRUGER, CHARLES H; *DEVELOPMENT OF TUNABLE LASER ABSORPTION SPECTROSCOPY AND APPLICATION TO HIGH TEMPERATURE STUDIES OF NO-NH3 KINETICS (CPE-7826158 A02);* 12 MONTHS $69,915

BOUDART, MICHEL; *CATALYSIS BY CLUSTER OF GOLD AND SMALL PARTICLES OF IRON (CPE-7909141 A02);* 12 MONTHS $82,542

MITCHNER, MORTON, AND SELF, SIDNEY A; *CHARGED PARTICLE TRANSPORT BY ELECTRIC FORCES IN TURBULENT GAS FLOWS (CPE-7926290 A01);* 12 MONTHS $61,510

SELF, SIDNEY A; *DEVELOPMENT AND USE OF DIAGNOSTIC TECHNIQUES FOR COMBUSTION MHD AND RELATED PLASMA FLOWS (CPE-8006973 A01)*; 12 MONTHS $74,454

HOMSY, GEORGE M, AND KEAIRNS, DALE L; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: FLOW REGIMES AND TRANSITION IN FLUIDIZED BEDS (CPE-8017523)*; 12 MONTHS $70,000

MADIX, ROBERT J; *THE EFFECT OF SURFACE COMPOSITION AND STRUCTURE ON CHEMICAL REACTIONS ON METAL SURFACES (CPE-8023815)*; 12 MONTHS $81,267

FULLER, GERALD G; *TWO COLOR BIREFRINGENCE MEASUREMENT OF FLOW INDUCED DEFORMATION AND ORIENTATION OF MACROMOLECULES (CPE-8025833*)*; 12 MONTHS $27,348

FULLER, GERALD G; *RESEARCH INITIATION: DYNAMICS OF ADSORBED POLYMER MOLECULES SUBJECTED TO FLOW (CPE-8105497)*; 24 MONTHS $48,000

ACRIVOS, ANDREAS; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ENHANCED SEDIMENTATION IN SETTLING TANKS HAVING INCLINED WALLS (CPE-8108200*)*; 12 MONTHS $48,979

STD RESEARCH CORPORATION

DEMETRIADES, S T; *NUMERICAL SOLUTIONS OF THE COUPLED THREE-DIMENSIONAL MAGNETO-HYDRODYNAMIC CHANNEL PROBLEM (CPE-8118986)*; 1 MONTHS $1,117

UNIVERSITY OF CALIFORNIA, BERKELEY

FUERSTENAU, DOUGLAS W; *INTERFACIAL PHENOMENA IN MINERAL SEPARATION PROCESSES (CPE-7706971 A04)*; 12 MONTHS $63,992

BELL, ALEXIS T; *STUDIES OF CATALYTIC MECHANISMS THROUGH THE USE OF INFRARED SPECTROSCOPY AND KINETIC ANALYSIS (CPE-7826352 A02)*; 12 MONTHS $39,772

SOONG, DAVID S; *COMPUTER MODELLING OF RHEOLOGICAL BEHAVIOR OF ENTANGLED POLYMERS (CPE-7826870 A02)*; 12 MONTHS $49,541

PETERSEN, EUGENE E; *DEACTIVATION OF PLATINUM-RHENIUM REFORMING CATALYSTS DURING THE DEHYDROGENATION OF METHYLCYCLOHEXANE AND DEHYDROCYCLIZATION OF N-HEPTANE (CPE-7910412 A02)*; 12 MONTHS $37,893

BLANCH, HARVEY W; *BUBBLE SIZE AND FUNGAL MORPHOLOGY IN FERMENTATION SYSTEMS (CPE-7912024 A01*)*; 12 MONTHS $39,412

SOONG, DAVID S; *RESEARCH INITIATION: A CONTINUOUS POLYMERIZATION PROCESS (CPE-8103632)*; 24 MONTHS $47,354

EVANS, J W; *HYDRODYNAMIC EFFECTS IN ELECTROLYSIS CELLS WITH PARTICULAR REFERENCE TO ELECTROMETALLURGY (08E-8110659*)*; 12 MONTHS $33,473

UNIVERSITY OF CALIFORNIA, DAVIS

CARBONELL, RUBEN G; *DISPERSION IN POROUS MEDIA (CPE-7913269 A01)*; 12 MONTHS $55,193

OLLIS, DAVID F; *CHARACTERIZATION AND CATALYTIC ACTIVITY OF MULTICOMPONENT SURFACES (CPE-8019830)*; 24 MONTHS $75,777

OLLIS, DAVID F; *PHOTOCATALYTIC DEGRADATION OF HALOCARBON CONTAMINANTS IN WATER (08E-8023159*)*; 24 MONTHS $74,351

SMITH, JOSEPH M; *RATE PROCESSES IN SUPER-CRITICAL EXTRACTION (CPE-8025831)*; 24 MONTHS $56,756

SMITH, JOSEPH M; *DYNAMIC DIFFUSION STUDIES IN CATALYST PELLETS (CPE-8026101)*; 24 MONTHS $60,173

UNIVERSITY OF CALIFORNIA, IRVINE

SAMUELSEN, G S, AND LA RUE, JOHN C; *INVESTIGATION OF TURBULENT, BACKMIXED, GASEOUS COMBUSTION (CPE-8013742)*; 12 MONTHS $77,325

UNIVERSITY OF CALIFORNIA, LOS ANGELES

FRIEDLANDER, SHELDON K, GIFFIN, CHARLES E, VILKER, VINCENT L, AND SINHA, MAHADEVA P; *PARTICLE ANALYSIS BY MASS SPECTROMETRY (CPE-8008686*)*; 12 MONTHS $74,500

YEH, CAVOUR W, AND LEE, KELVIN S; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THE SCATTERING OF A STRONGLY FOCUSED LASER BEAM BY FINE PARTICLES (CPE-8017436*)*; 24 MONTHS $16,269

FREDERKING, T H; *THERMO-OSMOTIC VAPOR LIQUID PHASE SEPARATION (CPE-2105153)*; 24 MONTHS $72,563

UNIVERSITY OF CALIFORNIA, SAN DIEGO

MILLER, DAVID R; *KINETICS AND GAS DYNAMICS OF FREE-JET EXPANSIONS (CPE-8017871)*; 12 MONTHS $46,009

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

GUROL, HUSAM; *THE EFFECTS OF CASCADE-INDUCED RANDOM FLUCTUATIONS ON IRRADIATION CREEP (CPE-8025300)*; 12 MONTHS $41,806

CHANG, HSEUH-CHI; *RESEARCH INITIATION - PERTURBATION ANALYSIS OF HETEROGENEOUS CATALYTIC DYNAMICS (CPE-8105155)*; 24 MONTHS $47,962

UNIVERSITY OF SOUTHERN CALIFORNIA

TSOTSIS, THEODORE T; *RESEARCH INITIATION: APPLICATION OF THE TECHNIQUES OF ELLIPSOMETRY AND CONTACT POTENTIAL DIFFERENCE TO THE STUDY OF REACTION RATE OSCILLATIONS IN CATALYTIC SYSTEMS (CPE-8106571)*; 24 MONTHS $47,987

COLORADO

COLORADO STATE UNIVERSITY

HARPER, JUDSON M; *SHEAR EFFECTS ON VEGETABLE PROTEIN TEXTURIZATION (CPE-8017524)*; 24 MONTHS $104,400

COLLINS, GEORGE J; *PLASMA DIAGNOSTICS OF SHEATH REGION OF GALLIUM ARSENIDE AND ASSOCIATED COMPOUNDS (CPE-8020433)*; 12 MONTHS $39,999

DALE, BRUCE E; *SPECIALIZED RESEARCH EQUIPMENT: DIFFERENTIAL SCANNING CALORIMETER FOR FOOD AND ENERGY RESEARCH (CPE-8104750)*; 12 MONTHS $25,590

UNIVERSITY OF COLORADO AT BOULDER

BROWN, LEE F; *NONREACTING GAS EFFECTS ON THE RATE OF THE CARBON-CARBON DIOXIDE REACTION (CPE-8019539)*; 24 MONTHS $86,355

FALCONER, JOHN L; *COPPER-CATALYZED, DIRECT SYNTHESIS REACTION (CPE-8024256*)*; 24 MONTHS $123,000

KRANTZ, WILLIAM B; *COOPERATIVE RESEARCH WITH WEST GERMANY ON UNDERGROUND COAL GASIFICATION (INT-8108409*)*; 12 MONTHS $4,500

TIMMERHAUS, KLAUS D; *1981 CRYOGENIC ENGINEERING CONFERENCE; SAN DIEGO, CALIF.; AUGUST 10-14, 1981 (CPE-8110653)*; 12 MONTHS $18,000

CONNECTICUT

UNIVERSITY OF CONNECTICUT

COUGHLIN, ROBERT W; *INTERACTION BETWEEN BULK PARTICULATE SOLIDS AND GASEOUS ENVIRONMENTS (CPE-7908779 A01)*; 12 MONTHS $40,009

COUGHLIN, ROBERT W; *CONVERSION OF LIGNIN TO HIGH-VALUE CHEMICAL INTERMEDIATES (CPE-8014523)*; 12 MONTHS $104,794

ANDERSON, THOMAS F; *RESEARCH INITIATION: FLUID-PHASE EQUILIBRIA OF MIXTURES CONTAINING TRANSITION METAL COMPLEXES (CPE-8106324)*; 24 MONTHS $47,867

YALE UNIVERSITY

HALLER, GARY L; *CATALYST SUPPORT INTERACTIONS (CPE-7813914 A01)*; 24 MONTHS $130,142

FENN, JOHN B; *MOLECULAR BEAMS FROM FREE JET SOURCES (CPE-7910843 A02)*; 12 MONTHS $78,650

KRISHNAN, MAHADEVAN, AND HIRSHFIELD, JAY L; *ELECTROMAGNETIC ISOTOPE SEPARATION IN LASER-INITIATED VACUUM ARCS (CPE-7916500 A02)*; 12 MONTHS $62,322

NORDINE, PAUL C; *KINETICS OF HALOGEN GAS REACTIONS ON LIQUID AND SOLID SURFACES (CPE-8024190)*; 12 MONTHS $42,388

LONG, MARSHALL B; *RESEARCH INITIATION: MEASUREMENT OF GAS SPECIES CONCENTRATIONS IN FORCED FLOW FIELDS BY RAMAN SCATTERING (CPE-8105976)*; 24 MONTHS $47,460

DELAWARE

UNIVERSITY OF DELAWARE

SPIELMAN, LLOYD A; *FLOC BREAKAGE IN AGITATED LIQUID SUSPENSIONS (CPE-7823540 A02)*; 12 MONTHS $47,275

GATES, BRUCE C; *CATALYSIS BY METAL CLUSTERS ATTACHED TO SOLIDS (CPE-7826054 A02)*; 12 MONTHS $85,726

RUSSELL, THOMAS W; *DESIGN OF TWO-PHASE, GAS-LIQUID FERMENTORS (CPE-7913226 A01*)*; 12 MONTHS $28,024

SANDLER, STANLEY I; *COLLABORATIVE RESEARCH: GENERALIZED CORRESPONDING STATES PRINCIPAL USING TWO NONSPHERICAL REFERENCE FLUIDS (CPE-8013756)*; 12 MONTHS $31,039

KATZER, JAMES R, AND GATES, BRUCE C; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH: SUPPORTED METAL AND METAL-CLUSTER CATALYSTS: CHARACTERIZATION AND FORMULATION (CPE-8016212*)*; 12 MONTHS $77,486

WEBER, ROBERT S; *STRUCTURAL AND ELECTRONIC PROPERTIES OF SUPPORTED METAL CATALYSTS (CPE-8020209*)*; 12 MONTHS $23,959

SANDLER, STANLEY I; *SPECIALIZED RESEARCH EQUIPMENT: VAPOR-LIQUID EQUILIBRIA FOR SYNTHETIC FUELS PROCESSING (CPE-8104553)*; 12 MONTHS $8,500

DISTRICT OF COLUMBIA

AMERICAN UNIVERSITY

WATERS, PAUL F, AND BREUER, MIKLOS M; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ADSORPTION OF POLYMER-SURFACTANT COMPLEXES ON SOLID SURFACES (CPE-8010687*)*; 12 MONTHS $41,469

NATIONAL ACADEMY OF SCIENCES

SPINDEL, WILLIAM; *REVIEW OF RESEARCH NEEDS AND OPPORTUNITIES IN POLYMER SCIENCE AND ENGINEERING (DMR-7913590 A02*)*; 6 MONTHS $7,500

POLLACK, KERSTIN B; *A STUDY OF EDUCATION AND UTILIZATION OF ENGINEER 1980-2000: STATUS, NEEDS, AND OPPORTUNITIES, PHASE I (08G-8107881*)*; 6 MONTHS $4,000

FLORIDA

UNIVERSITY OF FLORIDA-ENGINEERING & INDUSTRIAL EXPERIMENT STATION

LEE, HONG H; *MODELING AND OPTIMIZATION OF A FIXED-BED REACTOR UNDER THE CONDITIONS OF CATALYST SINTERING (CPE-8104713)*; 12 MONTHS $49,199

UNIVERSITY OF FLORIDA

ONODA, GEORGE Y; *THE SCIENCE OF EXTRUDING NON-PLASTIC PARTICULATES (CPE-7818077 A02)*; 12 MONTHS $30,000

SHAH, DINESH O; *KINETICS OF MICELLAR AND MICROEMULSION SYSTEMS (CPE-8005851)*; 24 MONTHS $142,048

UNIVERSITY OF MIAMI-SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

MITSUI, AKIRA; *PHOTOPRODUCTION OF HYDROGEN BY MARINE BLUE-GREEN ALGAE (CPE-8018142 A01)*; 12 MONTHS $139,862

GEORGIA

GEORGIA INSTITUTE OF TECHNOLGY MAIN CAMPUS

ERNST, WILLIAM R; *AN EXPERIMENTAL STUDY OF NONUNIFORMLY ACTIVE CATALYSTS (CPE-8005713)*; 24 MONTHS $115,925

POEHLEIN, GARY W; *EMULSION POLYMERIZATION KINETICS AND CONTINUOUS REACTORS (CPE-8011455)*; 24 MONTHS $114,480

TEJA, AMYN S; *COLLABORATIVE RESEARCH: GENERALIZED CORRESPONDING STATES PRINCIPLE USING TWO NONSPHERICAL REFERENCE FLUIDS (CPE-8104201)*; 12 MONTHS $31,668

YOGANATHAN, AJIT P; *RESEARCH INITIATION: TUBULAR ENTRY FLOW OF POLYMERIC FLUIDS (CPE-8105152)*; 24 MONTHS $47,970

IDAHO

UNIVERSITY OF IDAHO

CRAWFORD, DONALD L; *CONVERSION OF LIGNOCELLULOSE BY ACTINOMYCETE MICROORGANISMS (CPE-8022081)*; 24 MONTHS $123,182

ILLINOIS

ILLINOIS INSTITUTE OF TECHNOLOGY

GIDASPOW, D, AND WASAN, DARSH T; *SEPARATION OF PARTICLES FROM NON-AQUEOUS MEDIA BASED ON ELECTROKINETIC PHENOMENA (CPE-7919189 A01)*; 12 MONTHS $59,000

TAVLARIDES, LAWRENCE L; *MASS TRANSFER/REACTION IN LIQUID-LIQUID DISPERSIONS (CPE-8021039)*; 12 MONTHS $66,600

WASAN, DARSH T; *DYNAMIC EFFECTS OF SURFACTANTS ON INTERFACIAL VISCOELASTIC PROPERTIES (CPE-8023181*)*; 12 MONTHS $62,000

NORTHWESTERN UNIVERSITY

GRAESSLEY, WILLIAM W; *FLOW PROPERTIES OF POLYMERS (CPE-8000390 A01)*; 12 MONTHS $69,817

STEIN, GILBERT D; *A STUDY OF THE NUCLEATION AND PHYSICAL PROPERTIES OF SMALL ATOMIC AND MOLECULAR CLUSTERS FORMED IN NOZZLE BEAMS (CPE-8016774)*; 24 MONTHS $108,625

SCHWARTZ, LYLE H, BUTT, JOHN B, AND BURWELL, ROBERT L; *WORKSHOP TO CONSIDER THE NEED FOR A NATIONAL FACILITY FOR THE STUDY OF HETEROGENEOUS CATALYSIS (CPE-8024102)*; 6 MONTHS $11,500

SCHWARTZ, LYLE H, BUTT, JOHN B, AND BURWELL, ROBERT L; *WORKSHOP TO CONSIDER THE NEED FOR A NATIONAL FACILITY FOR THE STUDY OF HETEROGENEOUS CATALYSIS (CPE-8024102 A01)*; 4 MONTHS $1,100

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

MANSOORI, G ALI, AND PALMER, DAVID A; *PREDICTION OF FLUID-PHASE EQUILIBRIUM PROPERTIES OF INDUSTRIALLY IMPORTANT CHEMICAL COMPOUNDS (CPE-8018154*)*; 24 MONTHS $24,448

MURAD, S; *RESEARCH INITIATION: MOLECULAR THERMODYNAMICS AND COMPUTER SIMULATION STUDIES OF PHYSICAL PROPERTIES OF LIQUIDS AND LIQUID MIXTURES (CPE-8105471)*; 24 MONTHS $47,990

TURIAN, RAFFI M; *BASIC STUDIES ON THE FLOW OF SETTLING SLURRIES (CPE-8111258)*; 12 MONTHS $45,286

UNIVERSITY OF ILLINOIS AT URBANA

CHAO, BEI T; *MODELING AND SCALING OF DILUTE SOLID-GAS SUSPENSION SYSTEMS (CPE-7812796 A03)*; 5 MONTHS $4,875

HANRATTY, THOMAS J; *MASS TRANSFER AND TWO-PHASE FLOW (CPE-7920980 A01)*; 12 MONTHS $71,000

HANRATTY, THOMAS J; *MASS TRANSFER AND TWO PHASE FLOW (CPE-7920980 A02)*; 8 MONTHS $3,500

MILEY, GEORGE H; *NUCLEAR-PUMPED LASERS (CPE-8000007 A01)*; 12 MONTHS $52,405

ALKIRE, RICHARD C; *ENGINEERING STUDIES ON ELECTROLYTIC CELLS AND PROCESSES: POROUS ELECTRODES, SHAPE CHANGE, AND OPTIMIZATION (CPE-8008947)*; 12 MONTHS $60,500

CHAO, BEI T, AND SOO, SHAO L; *MODELING ELECTROSTATIC EFFECTS IN DILUTE SOLID-GAS SUSPENSION SYSTEMS (CPE-8011270 A01)*; 12 MONTHS $54,902

MASEL, RICHARD I; *THE MECHANISM O CATALYTIC NITRIC OXIDE DECOMPOSITION (CPE-8012426)*; 18 MONTHS $48,000

STADTHERR, MARK A; *STRATEGIES FOR EQUATION BASED FLOWSHEETING OF COMPLEX CHEMICAL PROCESSES (CPE-8012428)*; 24 MONTHS $78,820

SHAEIWITZ, JOSEPH A; *FORCED DIFFUSION: TRANSPORT NEAR INTERFACES AND OF CHARGED PARTICLES IN SOLUTION (CPE-8012431)*; 24 MONTHS $88,500

EDEN, J G; *ULTRAVIOLET PHOTODISSOCIATION OF RARE GAS IONS: DIAGNOSTIC TOOL FOR THE STUDY OF EXCIMER MOLECULE AND ION CLUSTER FORMATION (CPE-8026508)*; 12 MONTHS $31,512

HANRATTY, THOMAS J; *SPECIALIZED RESEARCH EQUIPMENT: LASER-DOPPLER VELOCIMETER (CPE-8102923)*; 12 MONTHS $6,500

BLUE, THOMAS E; *RESEARCH INITIATION: FAST WAVE HEATING OF T AND 3HE IN ADVANCED FUEL PLASMAS (CPE-8105499*)*; 24 MONTHS $48,000

HIGDON, JONATHAN J; *RESEARCH INITIATION: HYDRODYNAMICS OF FLUID-SOLID FLOWS (CPE-8106453)*; 24 MONTHS $44,532

MILAVICKAS, LOUIS R; *RESEARCH INITIATION: FUSION-TYPE NEUTRON KERMA IN TISSUE EQUIVALENT PLASTIC, CARBON, MAGNESIUM, AND IRON (CPE-8107266)*; 24 MONTHS $48,000

INDIANA

PURDUE UNIVERSITY

CHAO, KWANG-CHU, AND GREENKORN, ROBERT A; *THERMODYNAMICS OF FLUID SYSTEMS (CPE-7912455 A02)*; 12 MONTHS $50,668

LIM, HENRY C; *GROWTH KINETICS OF MICROORGANISMS ON SUBSTRATES FROM PARTIAL OXIDATION OF METHANE FOR SINGLE CELL PROTEIN PRODUCTION (CPE-7918261 A01)*; 12 MONTHS $32,969

LIM, HENRY C; *OPERATION OF FED BATCH AND CONTINUOUS CULTURES FOR OPTIMAL PRODUCT FORMATION USING COMPUTER COUPLED FERMENTORS (CPE-7918902 A01)*; 12 MONTHS $54,155

REKLAITIS, GINTARAS V, AND OKOS, M R; *INDUSTRY/ UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: COMPUTER AIDED DESIGN AND ANALYSIS OF MULTIPRODUCT BATCH/ SEMICONTINUOUS PROCESSES (CPE-7924565*)*; 12 MONTHS $66,136

RAMKRISHNA, DORAISWAM, AND NARSIMHAN, GANESAN; *ANALYSIS OF RATE PROCESSES IN LIQUID-LIQUID DISPERSIONS (CPE-8001749 A01)*; 12 MONTHS $40,821

WANKAT, PHILIP C; *SEPARATION PROCESSES UTILIZING CONTINUOUS REGENERATION OF SORBENT OR SOLVENT (CPE-8006903)*; 24 MONTHS $94,459

TSAO, GEORGE T; *CONVERSION OF CELLULOSE AND XYLAN INTO GLYCOLS (CPE-8022426)*; 12 MONTHS $88,622

FRIEDLAENDER, FRITZ J, WANKAT, PHILLIP C, AND PETRAKIS, LEON; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: HIGH GRADIENT MAGNETIC SEPARATION (CPE-8023184*)*; 12 MONTHS $45,267

TSAO, GEORGE T, CHIANG, LIN-CHANG, AND GONG, CHENG-SHU; *COUPLED ISOMERIZATION AND SACCHAROMYCES FERMENTATION OF XYLOSE (CPE-8023336)*; 24 MONTHS $120,028

WANG, NIEN-HWA L; *RESEARCH INITIATION: MULTICOMPONENT ION-EXCHANGE REACTIONS IN MIXED-EXCHANGER SYSTEMS (CPE-8105959)*; 24 MONTHS $47,947

PETERS, ROBERT W; *RESEARCH INITIATION: CHARACTERIZATION OF THE ARAGONITECALCITE PHASE TRANSFORMATION; DETERMINATION OF THE DRIVING FORCES IN THE PRECIPITATION PROCESS (CPE-8106701)*; 24 MONTHS $47,990

UNIVERSITY OF NOTRE DAME

STRIEDER, WILLIAM; *TRANSPORT IN HETERCGENEOUS AND POROUS MEDIA-THERMAL CONDUCTION, SURFACE DIFFUSION, AND GASEOUS DIFFUSION WITHIN FINE PORES (CPE-7919790 A01)*; 12 MONTHS $40,633

IVORY, CORNELIUS F; *RESEARCH INITIATION - INTERNAL STAGING OF THE CONTINUOUS FLOW ELECTROPHORESIS DEVICE (CPE-8105154)*; 24 MONTHS $48,000

SCHMITZ, ROGER A; *THERMOGRAPHIC STUDIES OF CATALYTIC REACTION DYNAMICS (CPE-8110675)*; 10 MONTHS $45,845

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

REILLY, PETER J; *KINETIC AND SPECIFICITY PATTERNS OF XYLANASES (CPE-8022895)*; 12 MONTHS $59,684

LARSON, MAURICE A; *CHARACTERIZATION OF SECONDARY NUCLEATION BY ANALYSIS OF A GROWING CRYSTAL SURFACE WITH RAMAN SPECTROSCOPY (CPE-8111685)*; 12 MONTHS $48,795

UNIVERSITY OF IOWA

BEDDOW, JOHN K; *MORPHOLOGICAL ANALYSIS (CPE-8023868)*; 12 MONTHS $65,000

KENTUCKY

UNIVERSITY OF KENTUCKY

RAY, ASIT K; *RESEARCH INITIATION: MASS TRANSFER WITH PHASE CHANGE AND CHEMICAL REACTIONS IN SINGLE SUBMICRON PARTICLES (CPE-8106353)*; 24 MONTHS $48,000

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

PRICE, GEOFFREY L; *RESEARCH INITIATION: A KINETIC AND SOLID STATE STUDY OF MIXED OXIDE ALLYLIC OXIDATION CATALYSTS CONTAINING TELLURIUM (CPE-8106346)*; 24 MONTHS $47,970

MAINE

UNIVERSITY OF MAINE, ORONO

SHELDEN, RONALD A, AND THOMPSON, EDWARD V; *DEPENDENCE OF DIFFUSIVE PERMEATION RATES ON UPSTREAM AND DOWNSTREAM PRESSURES (CPE-8105813)*; 12 MONTHS $59,593

MARYLAND

CAPITAL SYSTEMS GROUP INC

CLANSKY, KENNETH B; *SUPPORT SERVICES FOR NSF RESEARCH INFORMATION PROCESSING AND DISSEMINATION PROGRAMS (12M-8020049 A01*)*; 4 MONTHS $43,195

JOHNS HOPKINS UNIVERSITY

KATZ, JOSEPH L; *PHOTONUCLEATION: A NEW METHOD FOR DETECTING ULTRA-LOW CONCENTRATIONS OF TRACE SUBSTANCES IN THE VAPOR PHASE (CPE-7919162 A01)*; 12 MONTHS $41,101

UNIVERSITY OF MARYLAND, COLLEGE PARK

GENTRY, JAMES W; *THE EFFICIENCY OF COLLECTING NON-SYMMETRICAL PARTICLES (CPE-8011369)*; 12 MONTHS $54,401

GENTRY, JAMES W; *THE EFFICIENCY OF COLLECTING NON-SYMMETRICAL PARTICLES (CPE-8011369 A01)*; 12 MONTHS $52,916

HATCH, RANDOLPH T, CADMAN, THEODORE W, AND COOK, THOMAS M; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: DEVELOPMENT OF CONTINUOUS MIXED (CPE-8016547*)*; 12 MONTHS $34,311

SENGERS, JAN V; *THE EIGHTH SYMPOSIUM ON THERMOPHYSICAL PROPERTIES; JUNE 15 18, 1981; GAITHERSBURG, MARYLAND (MEA-8021507*)*; 12 MONTHS $2,500

MCAVOY, THOMAS J; *INTERACTION ANALYSIS WITH APPLICATION TO DISTILLATION (CPE-8025901)*; 12 MONTHS $29,988

MASSACHUSETTS

BOSTON COLLEGE

DAVIDOVITS, PAUL; *EXOERGIC GAS PHASE REACTIONS OF BORON AND CARBON ATOMS (CPE-8007185 A01)*; 12 MONTHS $59,952

HARVARD UNIVERSITY

EMMONS, HOWARD W, AND DE RIS, JOHN; *DIFFUSION FLAME ENERGY TRANSFERS (CPE-8013985 A02*)*; 12 MONTHS $27,895

HARVARD UNIVERSITY-SCHOOL OF PUBLIC HEALTH

LEITH, DAVID; *RELATIONSHIPS BETWEEN CYCLONE PERFORMANCE AND DIMENSIONS (CPE-8012968)*; 12 MONTHS $41,663

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SATTERFIELD, CHARLES N, AND MADON, ROSTAM J; *EFFECT OF BULK LIQUID VS. GAS PHASE ON SELECTIVITY IN THE FISCHER-TROPSCH SYNTHESIS (CPE-7914173 A01*)*; 12 MONTHS $22,669

GRODZINSKY, ALAN J; *ELECTRIC FIELD CONTROL OF PERMEABILITY AND INTERACTIONS OF CONNECTIVE TISSUE POLYELECTROLYTES (CPE-7918781 A01)*; 12 MONTHS $63,077

POPE, STEPHEN B; *MONTE CARLO CALCULATIONS OF TURBULENT FLAMES (CPE-8000026 A01)*; 12 MONTHS $48,063

PROBSTEIN, RONALD F; *A NEW MODEL OF LAMELLA SETTLERS (CPE-8008068 A01)*; 12 MONTHS $66,819

HOWARD, JACK B, AND SIEGLA, DONALD C; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: SOOT FORMATION AND BURNOUT IN FLAMES (CPE-8008071*)*; 12 MONTHS $16,530

VAYENAS, COSTAS G; *SOLID ELECTROLYTE-AIDED STUDY OF CATALYTIC AND ELECTROCATALYTIC OXIDATIONS (CPE-8009436*)*; 12 MONTHS $88,545

ZAHN, MARKUS; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: STABILITY AND ELECTRODYNAMICS OF ELECTROFLUIDIZED BEDS (CPE-8010152*)*; 24 MONTHS $54,270

WEI, JAMES; *CATALYTIC HYDRODEMETALLATION (CPE-8020852)*; 24 MONTHS $130,000

BADDOUR, RAYMOND F, AND COHEN, ROBERT E; *CHEMICAL REACTIONS OF POLYMERIC MATERIALS IN DILUTE FLUORINE PLASMAS (CPE-8025302)*; 12 MONTHS $85,000

GATOS, HARRY C, AND LAGOWSKI, JACEK; *STUDIES OF ADSORPTION AND CHARGE TRANSFER ON SEMICONDUCTOR SURFACES - APPLICATION TO CATALYSIS (CPE-8026506)*; 12 MONTHS $70,000

PHYSICAL SCIENCES INC

CALEDONIA, GEORGE E, AND WILKERSON, THOMAS D; *COLLISION INDUCED EMISSION AND LIGHT SCATTERING IN HIGH TEMPERATURE GASES (CPE-8000928 A01*)*; 12 MONTHS $13,743

UNIVERSITY OF LOWELL

COUCHELL, GUS P, AND SCHIER, WALTER A; *DELAYED-NEUTRON ENERGY SPECTRA OF FISSIONABLE ISOTOPES (CPE-8017464)*; 24 MONTHS $187,983

UNIVERSITY OF MASSACHUSETTS, AMHERST

LAURENCE, ROBERT L; *MEASUREMENT OF DIFFUSION AND THERMODYNAMIC INTERACTIONS IN POLYMERS AND POLYMER BLENDS (CPE-7904168 A02)*; 12 MONTHS $29,695

HULTIN, HERBERT O; *STUDY OF A PROTEOLYTIC ENZYME FROM POIKILOTHERMIC ORGANISMS (CPE-7910816 A01)*; 12 MONTHS $34,983

DOUGLAS, JAMES M; *PROCESS DESIGN WITH CATALYST DEACTIVATION (CPE-7918041 A01)*; 12 MONTHS $43,230

PORTER, ROGER S; *POLYMER PROCESSING FOR MAXIMUM MECHANICAL PROPERTIES (CPE-8005348)*; 24 MONTHS $98,500

PELEG, MICHA; *RHEOLOGICAL MODELING OF SOLID FOODS (CPE-8015540)*; 24 MONTHS $79,248

MUDGETT, RICHARD E; *LIGNOCELLULOSIC WASTE CONVERSIONS: CONTROLLED GAS ENVIRONMENTS (CPE-8017732)*; 24 MONTHS $78,349

HAENSEL, VLADIMIR; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT FOR MORPHOLOGICAL CHARACTERIZATION (CPE-8104551)*; 12 MONTHS $30,000

MALONE, MICHAEL F; *RESEARCH INITIATION: MODELING OF POLYMER FLOW PROCESSES (CPE-8106344)*; 24 MONTHS $47,995

WORCESTER POLYTECHNIC INSTITUTE

SAND, LEONARD B; *MECHANISMS AND KINETICS OF CRYSTALLIZATION OF ZEOLITE MOLECULAR SIEVES (CPE-8017452)*; 24 MONTHS $90,623

DIBIASIO, DAVID; *RESEARCH INITIATION: THE DYNAMICS AND STABILITY OF A BIOLOGICAL REACTOR (CPE-8106350)*; 24 MONTHS $48,000

DIXON, ANTHONY G; *RESEARCH INITIATION: RADIAL HEAT AND MASS TRANSFER IN PACKED BEDS (CPE-8106352)*; 24 MONTHS $48,000

MICHIGAN

MICHIGAN STATE UNIVERSITY

GRULKE, ERIC A, AND BLANKS, ROBERT F; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: DIFFUSION AND SORPTION IN HIGH IMPACT POLYSTYRENE (CPE-8008070*)*; 24 MONTHS $17,904

PETTY, CHARLES A, AND WILLUS, CHARLES A; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THE EFFECTS OF POLYMER ADDITIVES ON HYDROCYCLONE PERFORMANCE (CPE-8015557*)*; 12 MONTHS $7,562

WOOD, PHILIP E; *RESEARCH INITIATION: PARTICLE DISPERSION IN TURBULENT SHEAR FLOWS (CPE-8106468)*; 24 MONTHS $40,460

JAYARAMAN, KRISHNAMU; *THE RHEOLOGY OF DILUTE EMULSIONS AND FOAMS IN POLYMERIC LIQUIDS (CPE-8110758)*; 12 MONTHS $18,166

UNIVERSITY OF MICHIGAN-ANN ARBOR

GULARI, ERDOGAN AND SCHWANK, JOHANNES; *STUDIES IN HETEROGENOUS CATALYSIS (CPE-7920618 A01)*; 12 MONTHS $50,967

WANG, HENRY Y, SCHULTZ, JEROME S, AND SAVAGEAU, MICHAEL A; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: APPLICATION OF IN-SITU EXTRACTION ON FERMENTATION PROCESSES (CPE-8010868 A01*)*; 12 MONTHS $12,130

NICHOLLS, JAMES A, SICHEL, MARTIN, AND KAUFFMAN, CHARLES W; *DETONATIVE COMBUSTION OF COAL, GRAIN, AND OTHER DUSTS (CPE-8023865)*; 12 MONTHS $84,000

GULARI, ERDOGAN; *SPECIALIZED RESEARCH EQUIPMENT: DIODE ARRAY SPECTROMETER (CPE-8102904)*; 12 MONTHS $28,000

FOGLER, H S, AND REED, M G; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: WATER SENSITIVITY OF SANDSTONE (CPE-8108197)*; 12 MONTHS $85,000

WAYNE STATE UNIVERSITY

GULARI, ESIN; *A LASER LIGHT SCATTERING STUDY OF TRANSPORT COEFFICIENTS AND PHASE BEHAVIOR OF CO2-HYDROCARBON SYSTEMS (CPE-8021953)*; 24 MONTHS $108,409

MINNESOTA

BIO-METRIC SYSTEMS INC

GUIRE, PATRICK E; *AFFINITY CROSSLINKING FOR ENZYME TECHNOLOGY - PHASE II (CPE-7917512 A01)*; 12 MONTHS $112,099

UNIVERSITY OF MINNESOTA

PFENDER, EMIL, AND DAVIS, H TED; *SYNTHESIS OF REFRACTORY CARBIDES AND NITRIDES IN THERMAL PLASMAS (CPE-7810047 A02)*; 12 MONTHS $91,173

CHANIN, L M; *NON-UNIFORMITY INVESTIGATIONS IN GLOW DISCHARGES (CPE-7903775 A02)*; 12 MONTHS $65,875

TIRRELL, MATTHEW V; *COPOLYMERIZATION REACTION ENGINEERING AT HIGH CONVERSION (CPE-7925356 A01)*; 12 MONTHS $13,039

PFENDER, EMIL; *STUDIES OF THE ELECTRODE REGIONS OF HIGH INTENSITY ARCS (CPE-8008950 A01)*; 12 MONTHS $114,593

OSKAM, HENDRIK J, AND PFENDER, EMIL; *WORKSHOP ON PLASMA CHEMISTRY AND ARC TECHNOLOGY (CPE-8016782 A01)*; 6 MONTHS $4,676

SCHMIDT, LANNY D; *CHARACTERIZATION OF SMALL PARTICLES IN REACTIVE ATMOSPHERES (CPE-8017440)*; 24 MONTHS $112,791

STEPHANOPOULOS , GEORGE; *VARIABLE CONTROL STRUCTURES FOR CHEMICAL PROCESSES (CPE-8018392)*; 12 MONTHS $40,172

FREDRICKSON, ARNOLD G; *MICROBIAL PREDATION AND COMPETITION (CPE-8020783)*; 12 MONTHS $67,703

CARR, ROBERT W; *MULTIPHOTON INFRARED PHOTOCHEMICAL REACTION ENGINEERING (CPE-8023180)*; 24 MONTHS $74,876

CUSSLER, EDWARD L, AND VICKERS, ZATA M; *MODELING OF TEXTUAL PROPERTIES OF FOOD MATERIALS UNDERGOING PHASE TRANSITIONS (CPE-8025304)*; 12 MONTHS $52,144

OSKAM, HENDRIK J; *STUDIES OF THE PROPERTIES OF GASEOUS PLASMA BY MASS SPECTROMETER AND LIGHT SPECTROMETER TECHNIQUES (CPE-8105468)*; 12 MONTHS $71,480

UNIVERSITY OF MINNESOTA AT SAINT PAUL

STEPHANOPOULOS , GEORGE; *STUDIES ON THE DESIGN OF INTEGRATED CHEMICAL PROCESSES (CPE-8007536)*; 12 MONTHS $56,029

IWASAKI, IWAO, AND MOORE, JOHN J; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: GRINDING MEDIA CORROSION AND ITS EFFECT ON FLOTATION (CPE-8018395*)*; 24 MONTHS $49,904

NEUMAN, RONALD D; *SPECIALIZED RESEARCH EQUIPMENT: LASER FLUORESCENCE APPARATUS FOR INTERFACIAL STUDIES (CPE-8104550)*; 12 MONTHS $29,260

GRIFFIN, GREGORY L; *RESEARCH INITIATION: COADSORPTION OF CARBON MONOXIDE AND HYDROGEN ON COPPER-ZINC OXIDE MIXTURES USING COMBINED INFRARED AND TEMPERATURE PROGRAMMED DESORPTION MEASUREMENTS (CPE-8105823)*; 24 MONTHS $48,000

MISSISSIPPI

UNIVERSITY OF MISSISSIPPI

REIDY, JAMES J, AND CRUM, LAWRENCE A; *NUCLEATION AND STABILIZATION OF CAVITATION NUCLEI IN LIQUIDS (CPE-8022917)*; 12 MONTHS $47,420

REIDY, JAMES J, AND CRUM, LAWRENCE A; *NUCLEATION AND STABILIZATION OF CAVITATION NUCLEI IN LIQUIDS (CPE-8022917 A01)*; $8,550

MISSOURI

UNIVERSITY OF MISSOURI, ROLLA

KASSNER, JAMES L, SUCK, SUNG H, HAGEN, DONALD E, AND SPARLIN, DON M; *EXPERIMENTAL AND THEORETICAL STUDIES OF NUCLEATION PHENOMENA (ATM-7919440 A01*)*; 12 MONTHS $10,000

WASHINGTON UNIVERSITY

POWELL, ROBERT L; *RESEARCH INITIATION - FLOW BEHAVIOR OF FILLED POLYMERIC FLUIDS (CPE-8006704 A01)*; 12 MONTHS $11,160

POWELL, ROBERT L; *EXPANSION AND MODERNIZATION OF RHEOLOGICAL TESTING EQUIPMENT (DMR-8015450*)*; 12 MONTHS $5,000

MONTANA

MONTANA COLLEGE OF MINERAL SCIENCE & TECH

TWIDWELL, LARRY G; *RECOVERY OF METAL VALUES AND DISPOSAL OF ARSENIC FROM COPPER SMELTING FLUE DUSTS (CPE-8014077*)*; 24 MONTHS $41,745

MONTANA STATE UNIVERSITY

CHARACKLIS, WILLIAM G; *AN INVESTIGATION OF FUNDAMENTAL PROCESSES CONTRIBUTING TO MICROBIAL FOULING (CPE-8017459)*; 12 MONTHS $80,287

UNIVERSITY OF MONTANA

SHAFIZADEH, FRED; *CHEMICAL UTILIZATION OF CELLULOSIC MATERIALS (CPE-8023854)*; 12 MONTHS $85,683

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

BURROW, PAUL D; *THE STUDY OF VIBRATIONALLY EXCITED MOLECULES BY LOW ENERGY ELECTRON SCATTERING (CPE-8012421)*; 12 MONTHS $27,126

NEVADA

UNIVERSITY OF NEVADA, RENO

SMITH, ROSS W; *EFFECT OF INCREASING IONIC STRENGTH ON FLOTATION OF OXIDE MINERALS (CPE-7910010 A01)*; 4 MONTHS $10,130

NEW HAMPSHIRE

DARTMOUTH COLLEGE-THAYER SCHOOL OF ENGINEERING

GRETHLEIN, HANS E, AND CONVERSE, ALVIN O; *RELATIONSHIP BETWEEN CELLULOSE SUBSTRUCTURE AND KINETICS OF ENZYMATIC HYDROLYSIS (CPE-7921074 A01)*; 12 MONTHS $67,477

NEW JERSEY

NEW JERSEY INSTITUTE OF TECHNOLOGY

HUANG, CHING-RON; *SEPARATION AND PURIFICATION OF PROTEINS VIA CONTINUOUS PH PARAMETRIC PUMPING (CPE-7910540 A02)*; 12 MONTHS $43,800

PRINCETON UNIVERSITY

PRUD'HOMME, ROBERT K, AND SMALL, HAMISH; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: FUNDAMENTALS AND APPLICATIONS OF HYDRODYNAMIC CHROMATOGRAPHIC SEPARATIONS (CPE-8003320*)*; 12 MONTHS $16,532

BRACCO, FREDIANO V; *COMBUSTION IN INTERNAL COMBUSTION ENGINES: EXPERIMENTAL ASSESSMENT OF TWO-DIMENSIONAL UNSTEADY MODELS FOR UNIFORM CHARGES (CPE-8003483 A01)*; 12 MONTHS $63,073

WILLIAMS, FORMAN A; *STUDIES OF MECHANISMS BY WHICH DRY POWDERS AID IN EXTINGUISHMENT OF DIFFUSION FLAMES FOR CONDENSED FUELS (CPE-8022918)*; 12 MONTHS $28,224

BENZIGER, JAY B; *REACTIONS OF ORGANIC SULFUR COMPOUNDS ON TUNGSTEN SURFACES (CPE-8024187)*; 24 MONTHS $87,502

ROYCE, BARRIE S, BENZIGER, JAY B, AND GELFAND, JACK J; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: FOURIER TRANSFORM INFRARED SPECTROMETER FOR ENGINEERING RESEARCH SUPPORT (CPE-8100183)*; 12 MONTHS $80,160

RUTGERS UNIVERSITY-BUSCH CAMPUS

CONSTANTINIDES , ALKIS; *COMPARATIVE BIOENERGETICS AND CARBON CONVERSION EFFICIENCY OF FREE AND IMMOBILIZED CELLS FOR THE PRODUCTION OF PRIMARY AND SECONDARY METABOLITES (CPE-8010865)*; 24 MONTHS $141,450

RUTGERS UNIVERSITY

VIETH, WOLF R; *STUDY AND INTEGRATION OF THE ROLE OF ACTIVE TRANSPORT IN MICROBIAL ENZYME BIOSYNTHESIS (CPE-8006978)*; 24 MONTHS $94,235

FREEMAN, ROBERT W; *RESEARCH INITIATION: EFFECT OF ELECTRIC FIELDS ON INTERFACIAL MASS TRANSPORT (CPE-8105793)*; 24 MONTHS $47,904

NEW YORK

CITY COLLEGE

JIJI, LATIF M, AND WEINBAUM, SHELDON S; *AN AIR-VAPOR-DROPLET LOCAL INTERACTIONS MODEL FOR SPRAY UNITS AND SPRAY SYSTEMS (CPE-7820709 A02*)*; 12 MONTHS $28,572

WEINBAUM, SHELDON S, PFEFFER, ROBERT, AND GANATOS, PETER; *TRANSPORT OF MACROMOLECULES ACROSS ARTERIAL WALL AND LOW REYNOLDS NUMBER FLOW IN MULTIPARTICLE SYSTEMS (CPE-7822101 A02*)*; 12 MONTHS $92,477

CLARKSON COLLEGE OF TECHNOLOGY

SUKANEK, PETER C, AND COLE, ROBERT; *OPTICAL TEMPERATURE MEASUREMENTS IN VISCOELASTIC FLUID FLOWS (CPE-8010784)*; 24 MONTHS $94,070

WEILAND, RALPH H; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THICKENING OF SUSPENSIONS AIDED BY THE ADDITION OF BUOYANT PARTICLES (CPE-8023185)*; 12 MONTHS $41,260

TAYLOR, ROSS; *RESEARCH INITIATION: DESIGN OF MULTICOMPONENT - MULTISTAGE SEPARATION PROCESSES WITH UNEQUAL COMPONENT EFFICIENCIES (CPE-8105516)*; 24 MONTHS $47,998

HARRIS, SANDRA L; *RESEARCH INITIATION: CONTROL OF A SINGLE-SCREW EXTRUDER USING A STOCHASTIC ADAPTIVE CONTROLLER (CPE-8106713)*; 24 MONTHS $47,994

COLUMBIA UNIVERSITY

SOMASUNDARAN, PONISSERI; *INTERFACIAL CHEMISTRY OF FINE MINERAL PARTICLES PROCESSING SYSTEMS (CPE-7825213 A01)*; 12 MONTHS $44,995

SOMASUNDARAN, PONISSERI; *BENEFICIATION OF MINERALS USING SELECTIVE FLOCCULATION (CPE-7909295 A02)*; 12 MONTHS $79,756

SOMASUNDARAN, PONISSERI, AND HALVERSON, FREDERICK; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: FLOCCULATION OF CLAYS (CPE-8011013*)*; 12 MONTHS $95,753

CORNELL UNIVERSITY

GUBBINS, KEITH E, AND STREETT, WILLIAM B; *PROPERTIES OF POLYATOMIC LIQUIDS AND THEIR MIXTURES FROM COMPUTER SIMULATION AND THEORY (CPE-7909168 A02)*; 12 MONTHS $61,652

SHULER, MICHAEL L; *MATHEMATICAL MODELS FOR PRODUCT FORMATION FROM MICROBIAL SYSTEMS (CPE-7921359 A01)*; 12 MONTHS $63,729

RODRIGUEZ, FERDINAND, AND COHEN, CLAUDE; *MECHANICAL, THERMODYNAMIC, AND AGEING PROPERTIES OF GELS (CPE-8018049)*; 24 MONTHS $104,000

AVEDISIAN, C; *RESEARCH INITIATION: BUBBLE GROWTH AND VAPOR EXPLOSIONS IN LIQUIDS (CPE-8106348)*; 24 MONTHS $47,852

OLBRICHT, WILLIAM L; *RESEARCH INITIATION: COALESCENCE OF DEFORMABLE VISCOUS DROPS IN LAMINAR FLOW (CPE-8106349*)*; 24 MONTHS $18,176

COHEN, CLAUDE; *COLLABORATIVE RESEARCH: ORIENTATION AND DEFORMATION OF MACROMOLECULES SUBJECTED TO OSCILLATORY FLOWS (CPE-8107914)*; 24 MONTHS $49,430

CORNELL UNIVERSITY-CORNELL UNIVERSITY - STATE

KINSELLA, JOHN E; *SEPARATION OF PROTEIN AND RNA FROM YEAST: NEW CHEMICAL PROCESS (CPE-8018394)*; 12 MONTHS $69,446

NEW YORK UNIVERSITY

LOW, MANFRED J; *STUDIES ON REACTIONS ON CARBON AND COAL SURFACES (CPE-7922100 A01*)*; 12 MONTHS $42,419

POLYTECHNIC INSTITUTE OF NEW YORK

HAN, CHANG D; *BUBBLE DYNAMICS IN STRUCTURAL FOAM PROCESSING (CPE-7910171 A01)*; 12 MONTHS $35,772

HAN, CHANG D, AND MIJOVIC, JOVAN; *SPECIALIZED RESEARCH EQUIPMENT: PROPERTY MORPHOLOGYPROCESSING RELATIONSHIPS OF MULTIPHASE POLYMERIC (CPE-8101832)*; 12 MONTHS $17,000

RENSSELAER POLYTECHNIC INSTITUTE

LITTMAN, HOWARD; *THE FLOW FIELD AND PRESSURE DISTRIBUTION IN THE ANNULUS OF A SPOUTED FLUIDIZED BED (CPE-7905736 A01)*; 12 MONTHS $36,392

BUNGAY, HENRY R; *ENGINEERING STUDIES WITH A DISSOLVED OXYGEN MICROPROBE (CPE-7920121 A01)*; 12 MONTHS $49,747

ARKUN, YAMAN; *STUDIES ON DESIGN AND CONTROL OF CHEMICAL PLANTS WITH MULTIREGIME CAPABILITIES (CPE-8009455)*; 24 MONTHS $65,600

THOMPSON, PHILIP A; *LABORATORY EXPERIMENTS WITH LIQUEFACTION SHOCK WAVES (CPE-8010783)*; 24 MONTHS $132,374

BIRNBOIM, MEYER H; *COLLABORATIVE RESEARCH: ORIENTATION AND DEFORMATION OF MACROMOLECULES SUBJECTED TO OSCILLATORY FLOWS (CPE-8020784)*; 24 MONTHS $62,424

STATE UNIVERSITY AT BUFFALO

NANCOLLAS, GEORGE H; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: CRYSTALLIZATION AND DISSOLUTION OF FLUORIDE AND PHOSPHATE SALTS (CPE-8005345 A01*)*; 12 MONTHS $44,790

BENENSON, DAVID M, AND MALONE, DENNIS P; *DIAGNOSTICS OF TURBULENT AND LAMINAR CO-AXIAL PLASMAS IN SUPERSONIC AND SUBSONIC FLOWS, BEFORE AND AFTER CURRENT ZERO (CPE-8007187 A01)*; 12 MONTHS $140,000

BENENSON, DAVID M, AND FRIND, GERHARD; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: INVESTIGATION OF UPSTREAM NOZZLE EFFECTS ON ARC INTERRUPTION SPEED (CPE-8008101 A01*)*; 12 MONTHS $54,241

KASPER, GERHARD, SHAW, DAVID T, DIETZ, PETER W, AND SNADDON, ROBERT W; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: EXPERIMENTAL INVESTIGATION OF DYNAMIC BEHAVIOR OF PARTICLE AGGREGATES (CPE-8024596)*; 12 MONTHS $65,000

KWOK, HOI-SING; *PICOSECOND TIME-RESOLVED DOUBLE RESONANCE SPECTROSCOPY OF POLYATOMIC MOLECULES (08E-8103633*)*; 12 MONTHS $44,978

SHAW, DAVID T; *WORKSHOP ON RESEARCH NEEDS AND OPPORTUNITIES IN AEROSOL ENGINEERING (CPE-8120154)*; 12 MONTHS $14,886

SYRACUSE UNIVERSITY

TIEN, CHI; *TREATMENT OF LIQUID WASTE IN ACTIVATED CARBON COLUMNS (CPE-7909883 A02)*; 12 MONTHS $56,331

ATKINSON, GEORGE H; *FORMATION DYNAMICS OF GAS PHASE RADICAL AND MOLECULAR SPECIES (CPE-8012965)*; 12 MONTHS $47,907

TIEN, CHI; *KINETICS OF DEEP BED FILTRATION (CPE-8110760*)*; 12 MONTHS $80,010

UNITED ENGINEERING TRUSTEES INC

SEBORG, DALE E, AND EDGAR, THOMAS F; *CONFERENCE ON CHEMICAL PROCESS CONTROL - II, AT SEA ISLAND, GEORGIA, JANUARY 18-23, 1981 (CPE-8011196)*; 12 MONTHS $18,030

YARAR, B, AND SPOTTISWOOD, DAVID J; *ENGINEERING FOUNDATION CONFERENCE ON INTERFACIAL PHENOMENA IN MINERAL PROCESSING HELD AT RINDGE, NEW HAMPSHIRE, AUGUST 2-7, 1981 (CPE-8113051)*; 6 MONTHS $7,500

UNIVERSITY OF ROCHESTER-SCHOOL OF MEDICINE AND DENTISTRY

DAHNEKE, BARTON, AND MERCER, THOMAS T; *CONDENSATIONAL GROWTH OF SMALL AEROSOL PARTICLES (CPE-8019543)*; 12 MONTHS $71,991

NORTH CAROLINA

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

SIEWERT, CHARLES E; *DEEP PENETRATION PROBLEMS IN RADIATION SHIELDING (CPE-8016775)*; 24 MONTHS $67,987

CHANG, HOU-MIN; *BIODEGRADATION OF LIGNIN BY WHITE-ROT FUNGI (CPE-8016910)*; 12 MONTHS $53,647

RESEARCH TRIANGLE INSTITUTE

MOROSOFF, N; *A NEW CLASS OF METALLATED CROSS-LINKED POLYMER SYSTEMS (CPE-8006805)*; 24 MONTHS $217,778

OHIO

CASE WESTERN RESERVE UNIVERSITY

RICKERT, SCOTT E; *MULTIPHASE MACROMOLECULAR ADSORPTION AND FILM GROWTH (CPE-7824007 A02)*; 12 MONTHS $45,846

JAMIESON, ALEXANDER M; *QUASIELASTIC LIGHT SCATTERING STUDIES OF MACROMOLECULAR TRANSPORT IN ENTANGLED POLYMER SOLUTIONS (CPE-8017831)*; 12 MONTHS $55,471

ADLER, ROBERT J, AND EDWARDS, ROBERT V; *SIMULTANEOUS MIXING AND CHEMICAL REACTION (CPE-8017863)*; 12 MONTHS $75,434

OHIO UNIVERSITY

COLLIER, JOHN R; *FIXED BOUNDARY POLYMER EXTRUSION-ORIENTATION-CRYSTALLIZATION (CPE-7912376 A01*)*; 12 MONTHS $37,475

UNIVERSITY OF AKRON MAIN CAMPUS

WILLIS, MAX; *EXPERIMENTAL VERIFICATION AND GEOMETRIC EXTENSION OF THE MULTIPHASE FILTRATION THEORY (CPE-8007583)*; 24 MONTHS $100,000

UNIVERSITY OF CINCINNATI

WILLEKE, KLAUS; *SIZE CLASSIFICATION OF FINE PARTICLES BY OPPOSING JETS (CPE-7926451 A01)*; 12 MONTHS $34,026

UNIVERSITY OF DAYTON

ROLINSKI, EDMUND J, SERVAIS, RONALD A, AND SANDHU, SARWAN S; *SPECIALIZED RESEARCH EQUIPMENT: MODULATED BEAM AND CALIBRATED GAS INLET MASS SPECTROMETRY (CPE-8103675)*; 12 MONTHS $10,000

OKLAHOMA

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

ATKINSON, GORDON, AND THOMAS, DAVID C; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THERMODYNAMICS OF CLEAR BRINE COMPLETION FLUIDS (CPE-8017441*)*; 24 MONTHS $49,422

UNIVERSITY OF TULSA

ARIMAN, TEOMAN, BERGMAN, WERNER, HELFRITCH, DENNIS J, AND RUSEK, STANLEY; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ELECTROSTATICALLY ENHANCED FIBROUS FILTRATION OF AEROSOLS (CPE-8101947*)*; 12 MONTHS $40,046

OREGON

BEND RESEARCH INC

BABCOCK, WALTER C, AND BAKER, RICHARD W; *RENOVATION OF PRINTED CIRCUIT BOARD ETCHANTS WITH COUPLED TRANSPORT MEMBRANES (CPE-8023179)*; 12 MONTHS $165,573

OREGON STATE UNIVERSITY

LEVENSPIEL, OCTAVE; *PROBLEMS IN GAS/SOLID CONTACTING (CPE-8024799)*; 12 MONTHS $75,295

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY-CARNEGIE INSTITUTE OF TECHNOLOGY

WESTERBERG, ARTHUR W; *OPTIMIZATION OF VERY LARGE PROCESS SYSTEMS (CPE-7801809 A03)*; 12 MONTHS $59,435

ANDERSON, JOHN L; *TRANSPORT OF ELECTROLYTE SOLUTIONS THROUGH MICROSCOPIC CHARGED PORES (CPE-8007584)*; 24 MONTHS $75,923

CARNEGIE-MELLON UNIVERSITY

JAIN, RAKESH K; *DYNAMICS OF NEOVASCULARIZATION IN SOLID TUMORS (CPE-7835432 A02)*; 12 MONTHS $32,240

ANDERSON, JOHN L; *HINDERED DIFFUSION WITH CHEMICAL REACTION IN SMALL PORES (CPE-8005344 A01*)*; 12 MONTHS $57,545

SIRIGNANO, WILLIAM A, AND GOULD, ROBERT K; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: TURBULENT CHEMICALLY REACTING AXISYMMETRIC JETS (CPE-8014661*)*; 12 MONTHS $69,473

WARREN, GARRY W; *SILVER CATALYSIS IN SULFIDE LEACHING REACTIONS (CPE-8108296)*; 12 MONTHS $57,785

DREXEL UNIVERSITY

VERYKIOS, XENOPHON E; *INSTRUMENT FOR CATALYST CHARACTERIZATION (CPE-8023192)*; 12 MONTHS $15,700

LEE, YOUNG H; *SPECIALIZED RESEARCH EQUIPMENT: OXYGEN MICROPROBE (CPE-8101966)*; 12 MONTHS $7,650

PENNSYLVANIA STATE UNIVERSITY

DUDA, JOHN L, AND VRENTAS, J S; *MOLECULAR DIFFUSION IN CONCENTRATED POLYMER SOLUTIONS (CPE-7836275 A03)*; 12 MONTHS $59,066

DANNER, RONALD P; *THEORETICAL AND EXPERIMENTAL STUDIES OF GAS MIXTURE ADSORPTION (CPE-8014453)*; 12 MONTHS $48,315

VANNICE, M ALBERT, AND GEOFFROY, GREGORY L; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH: THE PREPARATION, SINTERING, AND CATALYTIC BEHAVIOR OF SUPPORTED SILVER CATALYSTS (CPE-8019968*)*; 12 MONTHS $35,967

SIMKOVICH, GEORGE, AND APLAN, FRANK F; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THE EFFECTS OF SOLID STATE POINT DEFECTS UPON MINERAL BENEFICIATION PROCESSES (CPE-8024705*)*; 12 MONTHS $52,881

MESSING, GARY L; *SPECIALIZED RESEARCH EQUIPMENT: MERCURY POROSIMETER (CPE-8103636*)*; 12 MONTHS $21,475

OSSEO-ASARE, K; *INTERFACIAL CHEMISTRY OF METALLURGICAL SOLVENT EXTRACTION PROCESSES (CPE-8110756)*; 12 MONTHS $77,898

UNIVERSITY OF PENNSYLVANIA

PERLMUTTER, DANIEL D; *KINETICS OF REACTIONS IN POROUS SOLIDS: EVALUATION OF A RANDOM-PORE MODEL (CPE-8000291 A01)*; 12 MONTHS $52,116

GLANDT, EDUARDO D; *EQUILIBRIUM AND TRANSPORT PROPERTIES OF CONCENTRATED SOLUTES INSIDE MICROPORES (CPE-8006688)*; 24 MONTHS $97,816

DUSSAN, ELIZABETH B, AND LAUFFENBURGER, DOUGLAS A; *SPECIALIZED RESEARCH EQUIPMENT: IMAGE ANALYSIS SYSTEM (CPE-8104548)*; 12 MONTHS $60,000

UNIVERSITY OF PITTSBURGH

LINDT, J T; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: REACTIVE PROCESSING OF POLYMERS IN SINGLE-SCREW EXTRUDER (CPE-8007184 A01*)*; 12 MONTHS $9,023

PLAZEK, DONALD J; *A STUDY OF THE RELATION OF POLYMER PROCESSING BEHAVIOR TO MECHANICAL CHARACTERIZATION PARAMETERS (CPE-8024713)*; 12 MONTHS $36,010

GOODWIN, JAMES G; *SPECIALIZED RESEARCH EQUIPMENT: INFRARED SPECTROMETER FOR CATALYSIS, POLYMER AND COAL LIQUIDS INVESTIGATION (CPE-8103633)*; 12 MONTHS $20,000

RHODE ISLAND

BROWN UNIVERSITY

KESTIN, JOSEPH; *MEASUREMENT AND THEORY OF TRANSPORT PROPERTIES OF GASES AND THEIR MULTICOMPONENT MIXTURES (CPE-7813390 A02)*; 12 MONTHS $54,245

DOBBINS, RICHARD A; *NUCLEATION RATE MEASUREMENTS (CPE-7926764 A01)*; 24 MONTHS $50,549

GORDON RESEARCH CONFERENCES

HENRY, JOSEPH D; *GORDON RESEARCH CONFERENCE ON SEPARATION AND PURIFICATION HELD AT COLBY-SAWYER COLLEGE, NEW LONDON, NEW HAMPSHIRE, AUGUST 10TH TO 14TH, 1981 (CPE-8024707)*; 9 MONTHS $6,177

UNIVERSITY OF RHODE ISLAND

GONZALEZ, RICHARD D; *SIMULTANEOUS INFRARED AND KINETIC STUDIES OF SUPPORTED GROUP VIII METALS AND SUPPORTED BIMETALLIC CLUSTERS (CPE-7920155 A01)*; 12 MONTHS $35,808

ESTRIN, JOSEPH, AND TADROS, MAHER K, *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: MECHANISMS OF GROWTH AND MORPHOLOGICAL STABILITY OF SPARINGLY SOLUBLE SALTS (CPE-8018110 A01*)*; 12 MONTHS $29,352

LEE, CHONG M, *STABILIZATION OF FAT AND WATER AND ITS EFFECT ON TEXTURAL CHARACTERISTICS OF COMMINUTED PROTEINACEOUS PRODUCTS (CPE-8105616)*; 12 MONTHS $34,021

SOUTH CAROLINA

CLEMSON UNIVERSITY

BEYERLEIN, ADOLPH L, *THERMOGRAVITATIONAL THERMAL DIFFUSION IN LIQUID MIXTURES (CPE-8019544)*; 24 MONTHS $68,285

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

SUDARSHAN, TANGALI S, THOMPSON, JAMES E, AND FAUST, J W; *LIQUID METAL WETTING OF METAL AND INSULATOR SURFACES FOR HIGH POWER APPLICATIONS (CPE-8024712)*; 12 MONTHS $63,052

TENNESSEE

UNIVERSITY OF TENNESSEE AT KNOXVILLE

BOGUE, DONALD C; *THE NON-ISOTHERMAL, NON-ISOTROPIC BEHAVIOR OF AMORPHOUS POLYMERS (CPE-7925104 A01)*; 12 MONTHS $45,712

WHITE, JAMES L; *PROCESSING PARTICULATE REINFORCED POLYMER MELTS (CPE-8001744)*; 24 MONTHS $115,913

VANDERBILT UNIVERSITY

WILSON, DAVID J; *ADSORBING COLLOID FLOTATION STUDIES FOR WASTE TREATMENT AND WATER RECLAMATION (ISE-8022088)*; 24 MONTHS $25,242

TEXAS

RICE UNIVERSITY

ROWLEY, RICHARD L; *MULTICOMPONENT LIQUID-LIQUID EQUILIBRIA SURFACES FROM BINARY HEATS OF MIXING (CPE-8022908)*; 12 MONTHS $40,000

PAPOUTSAKIS, ELEFTHERI T; *RESEARCH INITIATION: PRODUCTION OF SINGLE CELL PROTEIN FROM C1 COMPOUNDS: STUDIES OF BIOMASS YIELDS AND SUBSTRATE TRANSPORT (CPE-8105796)*; 24 MONTHS $46,938

ZYGOURAKIS, KYRIACOS; *RESEARCH INITIATION: GASIFICATION OF CHAR PARTICLES: A THEORETICAL AND EXPERIMENTAL STUDY (CPE-8106708)*; 24 MONTHS $47,725

TEXAS A & M UNIVERSITY

HALL, KENNETH R; *THERMODYNAMIC PROPERTIES MEASUREMENTS WITH A MULTIPLE BURNETT-ISOCHORIC APPARATUS (CPE-7919537 A01)*; 12 MONTHS $65,652

BOCKRIS, JOHN O, AND KHAN, SHAHED; *ELECTROCHEMICAL ASPECTS OF THE FLOTATION PROCESS (CPE-8006977)*; 24 MONTHS $150,000

HALL, KENNETH R, AND KREGLEWSKI, ALEKSANDE; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: DEVELOPMENT OF NOVEL EQUATIONS OF STATE (ISI-8019541*)*; 24 MONTHS $31,773

EUBANK, PHILIP T; *THE THERMOPHYSICAL PROPERTIES OF GASEOUS CARBON DIOXIDE/WATER MIXTURES (CPE-8023185)*; 24 MONTHS $114,909

TEXAS TECH UNIVERSITY

NELSON, PAUL, AND VICTORY, HAROLD D; *COMPUTATIONAL AND MATHEMATICAL ASPECTS OF RADIATION TRANSPORT (CPE-7706766 A02)*; 24 MONTHS $102,488

UNIV OF TEXAS AT AUSTIN

SCHECHTER, ROBERT S; *SURFACE RHEOLOGY: THEORY, MEASUREMENT AND APPLICATION (CPE-7813315 A02)*; 12 MONTHS $46,099

LLOYD, DOUGLAS R; *MIXED POLYMER-SOLVENT THERMODYNAMICS BY GEL PERMEATION CHROMATOGRAPHY (CPE-8025314)*; 24 MONTHS $103,274

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

LUSS, DAN; *EXPERIMENTAL AND ANALYTICAL STUDY OF STEADY-STATE MULTIPLICITY AND DYNAMICS OF CATALYTIC REACTORS (CPE-7925381 A01)*; 12 MONTHS $48,147

JACKSON, ROY, AND GWYN, JOHN E; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THE MECHANICS OF FLOW OF PARTICULATE MEDIA (CPE-8011468*)*; 12 MONTHS $20,053

VIRGINIA

UNIVERSITY OF VIRGINIA

GAINER, JOHN L, KIRWAN, DONALD J, AND GADEN, ELMER L; *PERFORMANCE OF ADSORBED AND COVALENTLY-BOUND MICROBES (CPE-8004373 A01)*; 12 MONTHS $74,416

HUDSON, J L; *OSCILLATIONS AND CHAOS IN A CHEMICAL REACTOR (CPE-8021950)*; 12 MONTHS $53,029

POWERS, GREGORY L; *RESEARCH INITIATION: DIRECT MEASUREMENT OF ADSORPTION AND PARTITIONING IN POROUS MEDIA (CPE-8106752)*; 24 MONTHS $48,000

VIRGINIA POLYTECHNIC INSTITUTE

GLASSER, WOLFGANG G; *ENZYMATIC TRANSFORMATIONS OF LIGNIN (ISE 7913135 A02*)*; 12 MONTHS $39,434

YOON, ROHAN; *COLLECTORLESS FLOTATION OF CHALCOPYRITE AND SPHALERITE ORES (CPE-8011456)*; 12 MONTHS $48,686

BAIRD, DONALD G; *SPECIALIZED RESEARCH EQUIPMENT: ROTARY RHEOMETER FOR THE RHEOLOGICAL CHARACTERIZATION OF NON-NEWTONIAN FLUIDS (CPE-8101961)*; 12 MONTHS $42,424

WASHINGTON

UNIVERSITY OF WASHINGTON

MALTE, PHILLIP C; *THE EFFECT OF FUEL-SULFUR ON THE FORMATION AND YIELD OF FUEL-OXIDES OF NITROGEN IN COMBUSTION SYSTEMS (CPE-8011340)*; 30 MONTHS $90,000

CHRISTIANSEN, WALTER H, AND HERTZBERG, ABRAHAM; *LASER INDUCED MOLECULAR SEPARATIONS (CPE-8023187)*; 12 MONTHS $68,774

MALTE, PHILIP C; *SPECIALIZED RESEARCH EQUIPMENT: HIGH ENERGY, PULSED, TUNABLE DYE LASER SYSTEM (CPE-8104549)*; 18 MONTHS $40,000

RATNER, BUDDY D, AND KRIEGER, BARBARA B; *SPECIALIZED RESEARCH EQUIPMENT: FOURIER TRANSFORM INFRARED SPECTROMETER (CPE-8104607)*; 12 MONTHS $31,509

WASHINGTON STATE UNIVERSITY

ZOLLARS, RICHARD L; *SPECIALIZED RESEARCH EQUIPMENT: LIGHT SCATTERING INSTRUMENT FOR ANALYSIS OF SUBMICRON PARTICLES (CPE-8103677)*; 12 MONTHS $19,774

STOCK, DAVID E, AND CROWE, CLAYTON T; *SPECIALIZED RESEARCH EQUIPMENT: WAVE-FORM DIGITIZER FOR TWO-PHASE FLOW STUDIES (CPE-8104714)*; 12 MONTHS $10,911

LIDDELL, KNONA C; *FORMATION OF CUID AND CUID DURING ACIDIC FERRIC CHLORIDE LEACHING OF CHALCOPYRITE (CPE-8108203)*; 24 MONTHS $73,244

THOMSON, WILLIAM J; *METHANATION REACTION PATHS AT HIGH TEMPERATURES (CPE-8109180)*; 24 MONTHS $63,681

WEST VIRGINIA

WEST VIRGINIA UNIVERSITY

HENRY, JOSEPH D; *SPECIALIZED RESEARCH EQUIPMENT: PARTICLE SIZE ANALYZER FOR PARTICULATE PROCESSING RESEARCH (CPE-8104588)*; 12 MONTHS $33,450

WEN, C Y; *PLANNING GRANT FOR UNIVERSITY/INDUSTRY FLUIDIZED BED COOPERATIVE RESEARCH CENTER (ISI-8115302*)*; 12 MONTHS $5,000

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

DUMESIC, JAMES A; *WATER-GAS SHIFT CATALYST DESIGN STUDIES (CPE-7911130 A02)*; 12 MONTHS $67,140

STEWART, WARREN E; *TRANSPORT PHENOMENA AND REACTOR MODELLING (CPE-7813163 A01*)*; 12 MONTHS $52,510

RAY, W HARMON; *THE DYNAMIC BEHAVIOR OF CONTINUOUS POLYMERIZATION REACTORS (CPE-8012422)*; 24 MONTHS $149,600

LUND, DARYL B, AND CHAPMAN, THOMAS W; *INDUSTRY/UNIVERSITY COOPERATIVE ACTIVITY: FOULING OF HEAT TRANSFER SURFACES IN FOOD PROCESSING SYSTEMS (CPE-8020627*)*; 12 MONTHS $45,000

HILL, CHARLES G; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: FOURIER TRANSFORM INFRARED SPECTROMETER (CPE-8104707)*; 12 MONTHS $72,000

CHANG, Y AUSTIN; *THERMODYNAMICS OF METAL-SULFUR MELTS RELEVANT TO THE EXTRACTION AND REFINING OF NON-FERROUS METALS (CPE-8110852)*; 12 MONTHS $93,710

UNIVERSITY OF WISCONSIN-MILWAUKEE

CHANG, Y AUSTIN; *INVESTIGATION OF THERMODYNAMIC EQUATIONS OF STATE OF TERNARY INTERMETALLIC PHASES WITH LARGE RANGES OF HOMOGENEITY (CPE-7825807 A02)*; 4 MONTHS $9,672

CIVIL AND ENVIRONMENTAL ENGINEERING

ALASKA

UNIVERSITY OF ALASKA ANCHORAGE CAMPUS

SELKREGG, LIDIA; *MULTI-DISCIPLINARY POLICY ORIENTED RESEARCH APPLIED TO EARTHQUAKE HAZARD MITIGATION: THE CASE OF ALASKA (CEE-8112630)*; 12 MONTHS $185,222

UNIVERSITY OF ALASKA FAIRBANKS CAMPUS-GEOPHYSICAL INSTITUTE

SHAPIRO, LEWIS H; *DYNAMIC BEARING CAPACITY OF FLOATING ICE SHEETS (CEE-8018661)*; 12 MONTHS $28,672

ARIZONA

ARIZONA STATE UNIVERSITY

SINGHAL, AVI C; *STRENGTH CHARACTERISTICS OF BURIED JOINTED PIPELINES (CEE-8022095)*; 12 MONTHS $36,320

UNIVERSITY OF ARIZONA

WEBER, JEAN E, AND DUCKSTEIN, LUCIEN; *CRITERIA FOR CHOOSING A REGRESSION METHOD IN ENGINEERING DECISION-MAKING (CEE-7905010 A01)*; 12 MONTHS $77,429

HOENIG, STUART A; *FUNDAMENTAL THERMAL AND ELECTROCHEMICAL PHENOMENA ASSOCIATED WITH DRILLING PROCESSES IN ROCK (CEE-7926590 A01)*; 12 MONTHS $78,110

BHATTACHARYA, RABINDRA N; *FUNDAMENTAL STUDIES ON SUB-SURFACE TRANSPORT THEORY (CEE-8004499 A01)*; 12 MONTHS $18,733

HOENIG, STUART A; *DETECTION OF PRE-ROCK BURST PHENOMENA (CEE-8008062)*; 12 MONTHS $49,999

GLASS, CHARLES E; *RESEARCH INITIATION: 'A REGIONALIZED VARIABLES MODEL FOR EARTHQUAKE MICROZONATION' (CEE-8105788)*; 15 MONTHS $47,337

DESAI, C S; *CYCLIC STRESS-STRAIN PARAMETERS OF SOIL-STRUCTURE INTERFACES FOR EARTHQUAKE DESIGN STRUCTURES (CEE-8116843)*; 21 MONTHS $79,991

CALIFORNIA

AHK

EWING, ROBERT D; *METHODOLOGY FOR MITIGATION OF SEISMIC HAZARDS IN EXISTING UNREINFORCED MASONRY BUILDINGS (CEE-8100522)*; 12 MONTHS $422,377

AGBABIAN ASSOCIATES

SAFFORD, FREDERICK B; *FEASIBILITY OF FORCE PULSE GENERATORS FOR EARTHQUAKE SIMULATORS (CEE-7715010 A02)*; 6 MONTHS $49,501

REDDY, DAMODER P; *SEISMIC RESISTANCE OF BUILDINGS WITH SUSPENDED FLOORS (CEE-8006570)*; 12 MONTHS $124,350

WERNER, STUART D; *BRIDGE RESPONSE TO TRAVELING SEISMIC WAVES (CEE-8007518 A01)*; 12 MONTHS $149,993

HUNG, S J; *SEISMIC ANALYSIS OF PORT AND HARBOR FACILITIES (CEE-8014337)*; 9 MONTHS $109,585

ANCO ENGINEERS INC

IBANEZ, PAUL; *DYNAMIC TESTING AND ACOUSTIC ANALYSIS OF CONCRETE DAMS (CEE-8013782)*; 24 MONTHS $82,211

RENTZ, PETER E; *SEISMIC HAZARD ASSESSMENT OF NONSTRUCTURAL CEILING COMPONENTS (CEE-8114155*)*; 6 MONTHS $10,000

APPLIED ENGINEERING RESOURCES INC

SHERIF, MEHMET A; *THIRD CONFERENCE ON MICROZONATION FOR SAFER CONSTRUCTION-RESEARCH AND APPLICATION, SEATTLE, WASHINGTON, SEPTEMBER, 1985 (CEE-8017052)*; 24 MONTHS $123,760

SHERIF, MEHMET A; *JOINT U.S.-PEOPLE'S REPUBLIC OF CHINA MICROZONATION WORKSHOP (CEE-8104432)*; 12 MONTHS $30,200

APPLIED TECHNOLOGY COUNCIL

MAYES, RONALD L; *WORKSHOP ON WOOD DIAPHRAGMS AND DEVELOPMENT OF A WOOD MANUAL (CEE-7706490 A03)*; 6 MONTHS $9,900

MAYES, RONALD L; *SYNTHESIS OF EARTHQUAKE ENGINEERING RESEARCH REPORTS FOR PRACTICING ENGINEERS (CEE-8023538)*; 18 MONTHS $99,047

MAYES, RONALD L; *DEVELOPMENT OF A COOPERATIVE RESEARCH PROGRAM BETWEEN THE UNITED STATES AND NEW ZEALAND ON THE SEISMIC RESISTANCE OF HIGHWAY BRIDGES (CEE-8105225*)*; 12 MONTHS $64,096

ASSOCIATION OF BAY AREA GOVERNMENTS

GOLDMAN, ROBERT; *IPA MOBILITY ASSIGNMENT (ROBERT E. GOLDMAN) (ISP-8026082 A01*)*; $10,300

BUILDING SYSTEMS DEVELOPMENT INC

ARNOLD, CHRISTOPH; *BUILDING CONFIGURATION AS A MODIFIER OF DAMAGE RATIO ESTIMATES FOR SINGLE FAMILY HOUSING (CEE-8022059)*; 12 MONTHS $75,501

ARNOLD, CHRISTOPH; *URBAN TECHNOLOGY OF EARTHQUAKE HAZARD REDUCTION: MODEL PLANNING DEVELOPMENT BASED ON A COMPARATIVE U.S. AND JAPANESE STUDY (CEE-8025171)*; 12 MONTHS $160,589

CALIFORNIA INSTITUTE OF TECHNOLOGY

HOUSNER, GEORGE W, AND JENNINGS, PAUL C; *NATIONAL INFORMATION SERVICE FOR EARTHQUAKE ENGINEERING (CEE-7823889 A01)*; 12 MONTHS $92,609

RAICHLEN, FREDRIC; *THE KINEMATIC PROPERTIES OF BREAKING WAVES AND THEIR INTERACTION WITH BOTTOM PAVEMENTS (CEE-7912434 A01)*; 12 MONTHS $94,282

SCOTT, RONALD F; *CENTRIFUGE TESTING OF EARTH RETAINING STRUCTURES UNDER SEISMIC LOADING (CEE-7913822 A01)*; 12 MONTHS $56,208

BROOKS, NORMAN H; *SEDIMENT TRANSPORT MECHANICS IN ALLUVIAL STREAMS (CEE-7920311 A01)*; 12 MONTHS $104,300

IWAN, WILFRED D; *NATIONAL WORKSHOP ON STRONG-MOTION EARTHQUAKE INSTRUMENTATION (CEE-8021095)*; 18 MONTHS $37,280

CALIFORNIA STATE UNIVERSITY, LONG BEACH

PLECNIK, JOSEPH M; *FIRE RESEARCH ON SEISMICALLY DAMAGED CONCRETE BEAMS REPAIRED WITH EPOXY ADHESIVES (CEE-7927222)*; 24 MONTHS $135,846

DAMES & MOORE

CHERY, DONALD, AND TUCKER, RICHARD C; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: STOCHASTIC MODELING OF STREAMFLOW WITH A PHYSICAL BASIS (CEE-7907793 A01*)*; 12 MONTHS $71,374

EARTHQUAKE ENGINEERING RESEARCH INSTITUTE

DUKE, C M; *MAXIMIZING THE LEARNING FROM DESTRUCTIVE EARTHQUAKES (CEE-7902990 A01)*; 12 MONTHS $75,898

SCHOLL, ROGER E; *COLLOQUIUM ON: ARCHITECTS AND PLANNERS IN SUPPORT OF THE EERI 'LEARNING FROM EARTHQUAKES' PROJECT (CEE-8116644)*; 9 MONTHS $15,000

ENGLEKIRK AND HART CONSULTING ENGINEERS INC

ENGLEKIRK, ROBERT E; *ANALYSIS OF THE IMPERIAL COUNTY SERVICES BUILDING (CEE-8013663)*; 12 MONTHS $17,673

HARVEY MUDD COLLEGE

GUPTA, KAJAL K; *DEVELOPMENT OF FINITE DYNAMIC ELEMENTS FOR DYNAMIC ANALYSIS OF STRUCTURES (CEE-7919757 A01)*; 12 MONTHS $47,720

J H WIGGINS COMPANY

EGUCHI, RONALD T, AND WIGGINS, JOHN H; *EARTHQUAKE SAFETY OF WATER AND GAS DISTRIBUTION NETWORKS (CEE-8005083 A01)*; 6 MONTHS $65,088

JACK R BENJAMIN AND ASSOCIATES INC

BENJAMIN, JACK R; *OPTIMAL RELIABILITY OF LIFELINE LEVEE SYSTEMS UNDER MULTIPLE NATURAL HAZARDS (CEE-8013033)*; 24 MONTHS $150,000

MELVYN GREEN & ASSOCIATES INC

GREEN, MELVYN; *EARTHQUAKE SAFETY AND EXISTING BUILDINGS--AN INTERDISCIPLINARY ANALYSIS OF RESEARCH NEEDS (CEE-8025842)*; 9 MONTHS $28,850

MERRITT CASES INC

MERRITT, J L; *SEISMIC TESTS OF BURIED LIFELINES AND INSTRUMENTATION/COMMUNICATION CONDUITS (CEE-8105791)*; 12 MONTHS $59,992

MICHAEL E DURKIN ASSOCIATES

DURKIN, MICHAEL E; *ALTERNATIVE METHODS FOR HAZARD REDUCTION IN UNREINFORCED MASONRY BUILDINGS (CEE-8113750*)*; 6 MONTHS $10,000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION-AMES RESEARCH CENTER

GIOVANNETTI, ANGELO; *CENTRIFUGE FACILITY FOR RESEARCH IN GEOTECHNICAL ENGINEERING (08E-7826122 A04*)*; 7 MONTHS $622,735

GIOVANNETTI, ANGELO; *CENTRIFUGE FACILITY FOR RESEARCH IN GEOTECHNICAL ENGINEERING (CEE-7826122 A05*)*; $150,720

SAN DIEGO STATE UNIVERSITY

PONCE, VICTOR M; *OUTFLOW HYDROGRAPHS DURING EARTH DAM BREACHES (CEE-8025155)*; 12 MONTHS $19,998

WESTERMO, BRUCE; *RESEARCH INITIATION: THE DEPENDENCE OF STRUCTURAL RESPONSE UPON EARTHQUAKE GROUND MOTION CHARACTERISTICS (CEE-8105781)*; 15 MONTHS $47,949

PONCE, VICTOR M; *RESEARCH INITIATION: NONLINEAR SEISMIC RESPONSE OF NONSTRUCTURAL ELEMENTS ATTACHED TO BUILDINGS (CEE-8105788)*; 15 MONTHS $47,999

FRAGASZY, RICHARD J; *RESEARCH INITIATION: BEARING CAPACITY STUDIES OF REINFORCED EARTH SLABS (CEE-8106339*)*; 24 MONTHS $47,997

SCIENTIFIC SERVICE INC

REITHERMAN, ROBERT K; *COMPREHENSIVE COMPUTER-AIDED EARTHQUAKE ANALYSIS AND PROGRAM DEVELOPMENT FOR BUSINESS AND INDUSTRY (CEE-8114231*)*; 6 MONTHS $10,000

SRI INTERNATIONAL

ABRAHAMSON, G R, AND LINDBERG, H E; *SIMULATION OF STRONG EARTHQUAKE MOTION WITH CONTAINED EXPLOSIVE LINE SOURCE ARRAYS (CEE-7920722 A01*)*; 12 MONTHS $226,542

STANFORD UNIVERSITY

HSU, EN YUN; *EXPERIMENTAL STUDIES ON THE STRUCTURE OF TURBULENT BOUNDARY LAYERS GROWING ON A DEFORMABLE AIR-WATER INTERFACE (CEE-7817618 A03)*; 6 MONTHS $20,000

KRAWINKLER, HELMUT; *STANDARD EXPERIMENTAL METHODS FOR DETERMINING SEISMIC BEHAVIOR OF STRUCTURAL COMPONENTS (CEE-7902616 A01)*; 6 MONTHS $9,558

FRANZINI, JOSEPH B; *MIXING PROCESSES IN THE SIMULATION MODELING OF IRREGULARLYSHAPED WATER BODIES (CEE-7921324 A01)*; 12 MONTHS $113,778

LECKIE, JAMES O; *TRANSFORMATION PROCESSES AFFECTING TRACE METAL ACCUMULATION AND TRANSPORT IN SALT MARSH ENVIRONMENTS (CEE-7922079 A01)*; 12 MONTHS $48,714

CLOUGH, G WAYNE; *A GENERALIZED APPROACH TO RISK AND DAMAGE ANALYSIS ASSOCIATED WITH SEISMICALLY INDUCED PORE WATER PRESSURE BUILD UP (CEE-8007083)*; 12 MONTHS $62,490

REMSON, IRWIN; *GROUNDWATER MANAGEMENT AND SOLUTE TRANSPORT MODELS (CEE-8006943)*; 24 MONTHS $123,344

LECKIE, JAMES O; *SOIL/FLY-ASH LEACHATE INTERACTIONS: RELEASE, TRANSPORT AND RETENTION OF TRACE ELEMENTS (CEE-8009088)*; 12 MONTHS $112,755

CLOUGH, G WAYNE; *COLLABORATIVE RESEARCH: DETERMINATION OF SOIL PROPERTIES WITH THE SELF-BORING PRESSUREMETER (CEE-8011594)*; 12 MONTHS $61,000

DANTZIG, GEORGE B; *OPTIMIZATION OF LARGE-SCALE DYNAMIC SYSTEMS WITH SPECIAL REFERENCE TO ENERGY AND WATER RESOURCES (ECS-8012974*)*; 12 MONTHS $78,000

SHAH, HARESH C; *A GENERALIZED AND GLOBAL STUDY OF EARTHQUAKE DAMAGE AND INSURANCE RISK (CEE-8017533*)*; 24 MONTHS $159,367

KRAWINKLER, HELMUT; *U.S.-JAPAN COOPERATIVE EARTHQUAKE RESEARCH PROGRAM: SMALL-SCALE MODEL TESTS OF STRUCTURAL COMPONENTS AND ASSEMBLIES (CEE-8021119)*; 12 MONTHS $58,324

TETRA TECH INC

LEE, Y K; *HYDRODYNAMIC EFFECTS OF STRONG EARTHQUAKE EXCITATION IN CONFINED AQUIFERS (CEE-8022337)*; 12 MONTHS $74,883

UNIVERSITY OF CALIFORNIA, BERKELEY

MCNIVEN, HUGH D; *NATIONAL INFORMATION SERVICE FOR EARTHQUAKE ENGINEERING (CEE-7720667 A05)*; 12 MONTHS $352,822

MITCHELL, JAMES K; *ACOUSTICAL RESPONSE DURING STATIC CONE PENETRATION AS A BASIS FOR SOIL IDENTIFICATION AND IN-SITU PROPERTY DETERMINATION (CEE-7720933 A02)*; 12 MONTHS $23,128

MCNIVEN, HUGH D; *EARTHQUAKE ENGINEERING RESEARCH FACILITY SUPPORT (CEE-7721787 A02)*; 12 MONTHS $53,518

DAGANZO, CARLOS F; *NETWORK EQUILIBRIUM METHODS (CEE-7812004 A01)*; 6 MONTHS $6,240

CLOUGH, RAY W; *EARTHQUAKE BEHAVIOR OF TECHI DAM (CEE-7819333 A02*)*; 12 MONTHS $52,481

BRILLINGER, DAVID R; *THE EARTHQUAKE APPLICATIONS OF POINT PROCESS METHODOLOGY (CEE-7901642 A01)*; 12 MONTHS $47,983

SCORDELIS, ALEXANDER C; *NONLINEAR ANALYSIS AND ULTIMATE STRENGTH OF CONCRETE BOX GIRDER BRIDGES (CEE-7918057 A01)*; 12 MONTHS $63,374

SACKMAN, JEROME L, AND KELLY, JAMES M; *ANALYSIS OF INTERACTING EQUIPMENT - STRUCTURE SYSTEMS (CEE-7923651 A01*)*; 12 MONTHS $58,326

JENKINS, DAVID; *USE OF SELECTIVE TOXICANTS FOR CONTROL OF ACTIVATED SLUDGE BULKING (CEE-8006295)*; 12 MONTHS $111,821

MAHIN, STEPHEN A; *U.S.-JAPAN COOPERATIVE RESEARCH PROGRAM: EVALUATION OF PSUEDO-DYNAMIC TEST METHODS (CEE-8008584 A01)*; 12 MONTHS $58,595

BERTERO, VITELMO V, AND CLOUGH, RAY W; *U.S.-JAPAN COOPERATIVE EARTHQUAKE RESEARCH PROGRAM: EARTHQUAKE SIMULATOR TESTS OF A REINFORCED CONCRETE BUILDING (CEE-8009478 A01)*; 12 MONTHS $204,106

HASSID, SAMI, AND WANG, MARCY; *WORKSHOP ON SEISMIC UPGRADING OF EXISTING BUILDINGS, BERKELEY, CA, JUNE 1981 (CEE-8025319)*; 10 MONTHS $28,610

CLOUGH, RAY W; *INTERACTION EFFECTS IN THE SEISMIC RESPONSE OF ARCH DAMS (29E-8100530)*; 12 MONTHS $34,562

HIRSHEN, SANFORD; *DEMONSTRATION OF THE EARTHQUAKE ADVISORY SERVICE PROTOTYPE (CEE-8104628)*; 6 MONTHS $34,838

LAGORIO, HENRY J; *U.S./PRC WORKSHOP ON URBAN TECHNOLOGY FOR EARTHQUAKE MITIGATION (CEE-8105229)*; 12 MONTHS $46,293

CHOPRA, ANIL K; *SEISMIC BEHAVIOR OF STRUCTURAL SYSTEMS: ANALYSIS AND DESIGN OF STRUCTURES (CEE-8105790)*; 12 MONTHS $310,000

UDELL, KENT S; *RESEARCH INITIATION: THE EFFECT OF TEMPERATURE ON THE APSOLUTE PERMEABILITY OF STRESSED UNCONSOLIDATED MEDIA (CEE-8106430)*; 24 MONTHS $48,000

POPOV, EGOR P, BERTERO, VITELMO V, AND MAHIN, STEPHEN A; *SEISMIC BEHAVIOR OF STRUCTURAL COMPONENTS (CEE-8107217)*; 12 MONTHS $380,000

MCNIVEN, HUGH D; *SEISMIC BEHAVIOR OF MASONRY (CEE-8107462)*; 12 MONTHS $105,000

CLOUGH, RAY W; *SEISMIC BEHAVIOR OF COMPLETE STRUCTURAL SYSTEMS (CEE-8110050)*; 12 MONTHS $313,516

UNIVERSITY OF CALIFORNIA, DAVIS

CHENEY, JAMES A; *CENTRIFUGE FACILITY FOR RESEARCH IN GEOTECHNICAL ENGINEERING (CEE-7813922 A03)*; 12 MONTHS $47,186

ARULANANDAN, KANDIAH, AND SHEN, CHIH-KANG; *EVALUATION AND ANALYSIS OF SOIL LIQUEFACTION DURING THE 1976 TANGSHAN EARTHQUAKE (CEE-8018425)*; 24 MONTHS $138,343

UNIVERSITY OF CALIFORNIA, LOS ANGELES

STENSTROM, MICHAEL K; *OXYGEN LIMITED NITRIFICATION IN WASTEWATER TREATMENT (CEE-7911792 A01)*; 12 MONTHS $25,550

HART, GARY C; *FULL SCALE TESTING OF A REHABILITATED MULTISTORY BUILDING (CEE-8007792)*; 12 MONTHS $42,427

REA, DIXON; *U.S. - JAPAN COOPERATIVE EARTHQUAKE RESEARCH PROGRAM: PARTICIPATION IN FULL-SCALE REINFORCED CONCRETE BUILDING TESTS (CEE-8023168)*; 12 MONTHS $17,415

UNIVERSITY OF CALIFORNIA, RIVERSIDE

SPOSITO, GARRISON; *FUNDAMENTAL STUDIES ON SUBSURFACE TRANSPORT THEORY (CEE-7920778 A01*)*; 12 MONTHS $34,982

UNIVERSITY OF CALIFORNIA, SAN DIEGO

HEGEMIER, GILBERT A; *CONNECTIONS IN CONCRETE MASONRY BUILDINGS UNDER SEISMIC EXCITATION (CEE-7816581 A03)*; 12 MONTHS $315,000

UNIVERSITY OF SOUTHERN CALIFORNIA

DRAVINSKI, M, AND LEE, VINCENT W; *ANALYSIS OF HIGH FREQUENCY STRONG EARTHQUAKE ACCELERATIONS (CEE-8009346)*; 24 MONTHS $82,092

TENG, TA-LIANG, AND TRIFUNAC, MIHAILO D; *LOS ANGELES BASIN STRONG MOTION ACCELEROGRAPH NETWORK (CEE-8011543)*; 12 MONTHS $58,157

LEE, VINCENT W, WESTERMO, BRUCE, AND TRIFUNAC, MIHAILO D; *AUTOMATION DIGITIZATION AND DISSEMINATION OF STRONG MOTION ACCELEROGRAPH DATA (CEE-8011544)*; 12 MONTHS $93,050

MILLER, RICHARD K; *THE DYNAMICS OF STRUCTURES WITH LOCALIZED NONLINEARITY (CEE-8018272)*; 24 MONTHS $93,609

WILLIAM SPANGLE AND ASSOCIATES

SPANGLE, WILLIM E; *PRE-EARTHQUAKE PLANNING FOR POST-EARTHQUAKE REBUILDING (CEE-8024724)*; 12 MONTHS $188,560

COLORADO

COLORADO STATE UNIVERSITY

MOREL-SEYTOUX, HUBERT J; *MODEL OF STREAM-SOIL-AQUIFER INTERACTIONS SUITED FOR SURFACE GROUND WATER QUALITY MANAGEMENT (CEE-7800733 A02)*; 12 MONTHS $18,300

SHEN, HSIEH W; *ALLUVIAL BED FORM RESISTANCE AND SEDIMENT MOVEMENTS (CEE-7825054 A02)*; 12 MONTHS $68,000

NELSON, JOHN D; *EXPANSIVE SOILS: PROBLEMS AND PRACTICES IN HIGHWAY AND FOUNDATION ENGINEERING (CEE-7910337 A01*)*; $16,098

GOODMAN, JAMES R; *STRENGTH BEHAVIOR OF WOOD--AN ANISOTROPIC, INHOMOGENEOUS, DISCONTINUOUS MATERIAL (CEE-7918170 A01)*; 12 MONTHS $122,897

SIMONS, DARYL B, AND LI, R M; *TWO-DIMENSIONAL INVESTIGATION OF SHEAR-FLOW TURBULENCE IN OPEN CHANNEL FLOWS (CEE-8007260)*; 24 MONTHS $144,993

SHEN, HSIEH W; *THE PHYSICAL BASIS OF SURFACE WATER HYDROLOGY WITH EMPHASIS ON HILLSLOPE HYDROLOGY AND DRAINAGE NETWORK DEVELOPMENTS (INT-8021913*)*; 12 MONTHS $19,963

RESEARCH INSTITUTE OF COLORADO (RIC)

WEDDING, JAMES B; *EXPERIMENTAL DETERMINATION AND NUMERICAL PREDICTION OF SPATIAL CONCENTRATION, DIFFUSION AND DEPOSITION OF HEAVY PARTICLES IN THE ATMOSPHERE (CEE-8023266)*; 12 MONTHS $44,414

UNIVERSITY OF COLORADO AT BOULDER

SCHIFFMAN, ROBERT L, AND KO, HON-YIM; *FINITE STRAIN CONSOLIDATION ANALYSIS OF THICK SOIL DEPOSITS (CEE-7901831 A01)*; 12 MONTHS $58,617

SATHER, DUANE P; *APPLICATIONS OF PARTIAL DIFFERENTIAL EQUATIONS AND GROUP REPRESENTATIONS TO NONLINEAR SHELL THEORY (MCS-7923650 A01*)*; 12 MONTHS $6,761

GERSTLE, KURT H; *RESPONSE OF CONCRETE TO MULTI-AXIAL LOAD HISTORIES (CEE-8001508 A01)*; 12 MONTHS $58,438

DOW, JOHN O; *STRESS CONCENTRATION APPLICATIONS OF SCALE-FREE FINITE ELEMENTS (CEE-8017854)*; 18 MONTHS $[illegible]58

STURE, STEIN, AND KO, HON-YIM; *EXPERIMENTAL AND ANALYTICAL VALIDATION OF CONSTITUTIVE MODELS FOR SOILS (CEE-8025806)*; 4 MONTHS $34,300

STURE, STEIN; *RESEARCH INITIATION: DYNAMIC BEHAVIOR OF SATURATED ROCK JOINTS (CEE-8105779)*; 15 MONTHS $48,000

GROSS, JOHN L; *RESEARCH INITIATION: ANALYSIS PROCEDURES FOR PARTIALLY ERECTED STRUCTURES (CEE-8105949)*; 24 MONTHS $47,988

WHITE, GILBERT F, AND HELBURN, NICHOLAS; *A CLEARINGHOUSE ON NATURAL HAZARDS RESEARCH AND APPLICATIONS (29E-8107283)*; 12 MONTHS $40,269

UNIVERSITY OF DENVER

DRABEK, THOMAS E; *EARTHQUAKE MITIGATION POLICY FORMULATION PROCESSES: A COMPARATIVE CASE STUDY (CEE-8006449 A02)*; 6 MONTHS $54,000

DELAWARE

UNIVERSITY OF DELAWARE

DEMARS, KENNETH R; *EFFECTIVE STRESS STATE AND STABILITY OF GRANULAR BEDS SUBJECTED TO WAVE PRESSURES (CEE-7918241 A01)*; 12 MONTHS $28,759

KERR, ARNOLD D; *FUNDAMENTALS OF TRACK MECHANICS (CEE-8001928 A01)*; 12 MONTHS $46,616

DALRYMPLE, ROBERT A; *A CONFERENCE ON PHYSICAL MODELING IN COASTAL ENGINEERING (CEE-8113675)*; 6 MONTHS $14,633

DISTRICT OF COLUMBIA

ACADEMY FOR CONTEMPORARY PROBLEMS-ACADEMY FOR CONTEMPORARY PROBLEMS-D C

RUBIN, CLAIRE B; *NATURAL DISASTER MITIGATION AND RECOVERY: ENHANCING THE DISSEMINATION OF RESEARCH RESULTS TO STATE AND LOCAL OFFICIALS (29E-7924999 A01)*; 12 MONTHS $50,000

AMERICAN GEOPHYSICAL UNION

SPILHAUS, A F; *CHAPMAN CONFERENCE ON SPATIAL VARIABILITY IN HYDROLOGIC MODELING (CEE-8107576)*; 12 MONTHS $5,000

ARCHITECTURAL RESEARCH CENTERS CONSORTIUM INC

HAECKER, JAMES L; *SEMINAR ON REDUCING THE VULNERABILITY OF CULTURAL OBJECTS TO (CEE-8007116)*; 18 MONTHS $98,218

TEMPLER, JOHN, JOROFF, MICHAEL, AND SNYDER, JAMES C; *WORKSHOP TO SET AN AGENDA FOR BUILDING SCIENCE RESEARCH (CEE-8113434)*; 6 MONTHS $9,994

TEMPLER, JOHN, JOROFF, MICHAEL, AND SNYDER, JAMES C; *WORKSHOP TO SET AN AGENDA FOR BUILDING SCIENCE RESEARCH (CEE-8113434 A01*)*; 6 MONTHS $7,325

COURTESY TRAVEL SERVICE

LYNCH, LOUISE; *TRAVEL AND ADMINISTRATIVE SERVICES IN SUPPORT OF INTERNATIONAL SCIENCE ACTIVITIES SPONSORED BY THE NATIONAL SCIENCE FOUNDATION (INT-8018782 A02*)*; 7 MONTHS $30,000

DEPARTMENT OF INTERIOR

WOODBURY, WILLIAM; *SUPPORT OF THE CONTINUING ACTIVITIES OF THE U.S. NATIONAL COMMITTEE FOR ROCK MECHANICS (08E-8023499)*; 12 MONTHS $1,802

GEORGE WASHINGTON UNIVERSITY

YEVJEVICH, VUJICA M; *STOCHASTIC WATER STORAGE THEORY (CME-7916817 A01)*; 12 MONTHS $100,000

MAHMOOD, KHALID; *PROTOTYPE RESEARCH ON ALLUVIAL CHANNELS IN IRRIGATION CANALS AND MEDIUM SIZE RIVERS (INT-8009474 A01*)*; $119,256

YANG, J N; *ACTIVE CONTROL OF STRUCTURES UNDER EARTHQUAKE AND OTHER DYNAMIC LOADS (CEE-8105307)*; 12 MONTHS $66,316

HOWARD UNIVERSITY

REISS, ROBERT; *A VARIATIONAL APPROACH TO OPTIMAL DESIGN OF STRUCTURES (CEE-7921128 A01)*; 12 MONTHS $25,857

J F COATES INC

COATES, JOSEPH F; *DEMOGRAPHIC CHANGE AND SOCIETAL RESPONSE TO NATURAL HAZARDS: A PROBLEM ASSESSMENT (CEE-8112583)*; 12 MONTHS $87,470

NATIONAL ACADEMY OF SCIENCES

EFREMIAN, EDWARD; *COMMITTEE ON NATURAL DISASTERS - POST EVENT INVESTIGATIONS TO MAXIMIZE LEARNING FROM DESTRUCTIVE NATURAL DISASTERS (CEE-7810631 A02*)*; 12 MONTHS $115,500

BERG, JOSEPH W; *PARTIAL SUPPORT OF THE COMMITTEE ON SEISMOLOGY (CEE-7816505 A01)*; 24 MONTHS $30,000

POLLACK, KERSTIN B; *A STUDY OF EDUCATION AND UTILIZATION OF ENGINEER 1980-2000: STATUS, NEEDS, AND OPPORTUNITIES, PHASE I (08G-8107881*)*; 6 MONTHS $80,430

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

ISRAELSEN, O ALLEN; *ACCOMPLISHMENTS AND OPPORTUNITIES IN EARTHQUAKE ENGINEERING RESEARCH (CEE-8111095)*; 12 MONTHS $170,059

SMITH, JAMES R; *INTERNATIONAL CONFERENCE ON PLANNING, ARCHITECTURE, AND COMPUTERS ;PARC 81, WASHINGTON, D. C., OCTOBER 6-8, 1981 (MCS-8112863*)*; 12 MONTHS $5,000

FLORIDA

FLORIDA INTERNATIONAL UNIVERSITY

RICE, RAMONA G; *ALGAL RESEARCH IN SOUTH FLORIDA HABITATS (CEE-8104742)*; 24 MONTHS $4,125

UNIVERSITY OF MIAMI-SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

LE MEHAUTE, BERNARD; *ESTABLISHMENT OF MATHEMATICAL MODELLING OF SHORELINE EVOLUTION (CEE-7911930 A02)*; 12 MONTHS $5,217

YAMAMOTO, TOKUO; *RESEARCH INITIATION: EFFECTS OF SOIL INELASTICITY AND EXCESS PORE PRESSURE ON EARTHQUAKE RESPONSE OF MARINE SEDIMENTS (CEE-8104429)*; 15 MONTHS $45,630

UNIVERSITY OF SOUTH FLORIDA-MARINE SCIENCE INSTITUTE

GUST, GISELHER; *HELICAL FLOWS IN SMOOTH, STRAIGHT OPEN CHANNELS WITH HIGH ASPECT-RATIO: A TEST FOR EXISTENCE AND GENESIS (OCE-7925971*)*; 12 MONTHS $9,552

GEORGIA

GEORGIA INSTITUTE OF TECHNOLGY MAIN CAMPUS

WEMPNER, G A; *MECHANICS OF ELASTIC-PLASTIC SHELLS (CEE-7918430 A01)*; 12 MONTHS $70,916

CHIAN, EDWARD S; *INVESTIGATION OF HUMIC SUBSTANCES IN SECONDARY EFFLUENTS (CEE-8008683)*; 24 MONTHS $100,000

BACHUS, ROBERT C; *COLLABORATIVE RESEARCH: DETERMINATION OF SOIL PROPERTIES WITH THE SELF-BORING PRESSUREMETER (CEE-8012960)*; 12 MONTHS $27,282

ATLURI, SATYA N; *INTERNATIONAL SYMPOSIUM ON HYBRID AND MIXED FINITE ELEMENT METHODS (CEE-8016319)*; 6 MONTHS $11,000

ARCHEA, JOHN C; *RESEARCH INITIATION: DURING EARTHQUAKES (CEE-8107222)*; 15 MONTHS $47,757

SIMITSES, GEORGE J; *NONLINEAR STABILITY ANALYSIS OF ELASTIC UNBRACED FRAMES (CEE-8117450)*; 12 MONTHS $47,640

UNIVERSITY OF GEORGIA

BATES, FREDERICK L; *A LONGITUDINAL STUDY OF THE EFFECTS OF THE 1976 GUATEMALA EARTHQUAKE (CEE-8013339)*; 12 MONTHS $186,054

HAWAII

UNIVERSITY OF HAWAII-MANOA

GERRITSEN, F; *THE EFFECT OF THE WAVE-INDUCED RESULTANT BOTTOM SHEAR STRESS ON WAVE SET-UP (CEE-8005690)*; 24 MONTHS $148,302

ILLINOIS

ILLINOIS INSTITUTE OF TECHNOLOGY

MALKUS, DAVID S; *FINITE ELEMENTS WITH PENALTIES FOR INCOMPRESSIBLE ELASTICITY (CEE-8017549)*; 12 MONTHS $34,334

NORTHWESTERN UNIVERSITY

NEMAT-NASSER, S; *COLLABORATIVE RESEARCH: MICROMECHANICAL MODELING OF GRANULAR SOIL BEHAVIOR (CEE-8007764)*; 12 MONTHS $52,712

BAZANT, ZDENEK P; *INELASTICITY AND FAILURE OF CONCRETE (CEE-8009050)*; 12 MONTHS $161,814

KRIZEK, RAYMOND J; *BASIC PROPERTIES AND INTERACTIVE ROLES OF CONSTITUENTS IN CHEMICALLY GROUTED SOILS (CEE-8025163)*; 12 MONTHS $50,624

LIU, WING K; *RESEARCH INITIATION: DYNAMIC AND BUCKLING ANALYSES OF LIQUID STORAGE TANKS (CEE-8105470)*; 15 MONTHS $48,000

JOVANIS, PAUL P; *RESEARCH INITIATION: DEVELOPMENT OF A METHODOLOGY TO PREDICT CHANGES IN TIME AND MODE OF TRAVEL WITH FLEXIBLE WORK HOURS (CEE-8106467)*; 24 MONTHS $45,278

COROTIS, ROSS B; *STATISTICAL DURATION - INTENSITY MODEL OF STRUCTURAL FLOOR LOADS (CEE-8115357)*; 12 MONTHS $61,934

PORTLAND CEMENT ASSOCIATION-RESEARCH AND DEVELOPMENT DIVISION

CORLEY, W GENE; *U.S.-JAPAN COOPERATIVE EARTHQUAKE RESEARCH PROGRAM: QUASISTATIC TESTS ON PLANAR REINFORCED CONCRETE STRUCTURES (CEE-8006753 A01)*; 12 MONTHS $140,846

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

NAAMAN, ANTOINE E; *A TEST SET-UP FOR FATIGUE TESTING OF PARTIALLY PRESTRESSED CONCRETE BEAMS (CME-7920985 A01)*; $10,000

SILVER, MARSHALL L; *COLLABORATIVE RESEARCH: MICROMECHANICAL MODELING OF GRANULAR SOIL BEHAVIOR (CEE-8008828)*; 12 MONTHS $44,890

SHAH, SURENDRA P; *BEHAVIOR OF CONFINED STRUCTURAL CONCRETE UNDER SEISMIC LOADING (CEE-8024722)*; 24 MONTHS $107,251

UNIVERSITY OF ILLINOIS AT URBANA

MESRI, GHOLAMREZ; *CONSOLIDATION, SWELLING, CREEP AND DETERIORATION OF CLAYS AND SHALES (CME-7820622 A02)*; 12 MONTHS $68,500

YOUNG, J F, BERGER, RICHARD L, AND LAWRENCE, FREDERICK V; *IMPROVEMENT OF STRENGTH DEVELOPMENT OF PORTLAND CEMENT (CEE-7822068 A02)*; 12 MONTHS $67,200

WEN, Y K; *RELIABILITY OF STRUCTURES UNDER MULTIPLE HAZARDS (CEE-7918053 A01)*; 12 MONTHS $42,870

HALL, WILLIAM J, AND PECKNOLD, D A; *EARTHQUAKE ENGINEERING DESIGN INVESTIGATIONS (CEE-8002582 A01)*; 12 MONTHS $154,705

ANG, A H, AND WEN, Y K; *SAFETY EVALUATION OF STRUCTURES TO EARTHQUAKE HAZARDS (CEE-8002584 A01)*; 12 MONTHS $163,770

SOZEN, METE A; *U.S.-JAPAN COOPERATIVE EARTHQUAKE RESEARCH PROGRAM: EARTHQUAKE SIMULATION TESTS OF SMALL-SCALE BUILDING MODELS (CEE-8007713 A01)*; 12 MONTHS $120,735

ANG, A H; *PROBABILISTIC DESIGN OF EARTHQUAKE-RESISTANT STRUCTURE U.S./P.R.C. COOPERATIVE RESEARCH (CEE-8019634)*; 12 MONTHS $45,154

LIN, Y K; *DYNAMIC RESPONSE ANALYSIS OF COMPLEX THIN SHELL STRUCTURES (CEE-8024882)*; 12 MONTHS $28,949

DING, G DAY; *METHODOLOGY FOR BENEFIT-COST ASSESSMENT OF MULTI-HAZARD MITIGATION STRATEGIES FOR ONE AND TWO FAMILY CONSTRUCTION (CEE-8106307)*; 15 MONTHS $47,495

CHANGNON, STANLEY A; *PREPARATION OF A COMPREHENSIVE PLAN OF RESEARCH ON FLOODS AND THEIR MITIGATION (OIR-8117027*)*; 12 MONTHS $20,000

INDIANA

PURDUE UNIVERSITY

GRADY, C P; *FACTORS AFFECTING THE QUANTITY AND QUALITY OF ORGANIC MICROBIAL BY-PRODUCTS IN ACTIVATED SLUDGE EFFLUENTS (CEE-7712649 A03)*; $11,870

SCHIFF, ANSHEL J; *IMPROVING EARTHQUAKE RESISTANCE OF POWER TRANSMISSION SUBSTATIONS (CEE-7825485 A02)*; 12 MONTHS $2,000

YAO, JAMES T; *CONTROL AND RELIABILITY OF CIVIL ENGINEERING STRUCTURES (CEE-8018963)*; 12 MONTHS $61,592

YANG, HENRY T Y; *DYNAMIC RESPONSE ANALYSIS OF COMPLEX THIN SHELL STRUCTURES (CEE-8024883)*; 12 MONTHS $74,296

CHEN, WAI F; *SEISMIC RESPONSE OF CONCRETE FRAMED STRUCTURES DURING CONSTRUCTION (CEE-8104625)*; 24 MONTHS $119,282

UNIVERSITY OF NOTRE DAME

KETCHUM, LLOYD H; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: GAS CHROMATOGRAPH (CEE-8103652);* 12 MONTHS $8,667

NEE, VICTOR W; *FLUID-STRUCTURE INTERACTION DURING EARTHQUAKE (CEE-8104431);* 12 MONTHS $35,000

JENNINGS, AARON A; *RESEARCH INITIATION: IMPROVED PHYSICAL DESCRIPTION OF THE SALTWATER INTRUSION PROBLEM (CEE-8105549);* 24 MONTHS $47,996

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

PLETCHER, RICHARD H; *ANALYSIS OF TURBULENT BOUNDARY-LAYERS (CEE-7812901 A02);* 12 MONTHS $53,720

HANDY, RICHARD L; *MECHANICS AND DISTRIBUTION OF LIQUID SILT (CEE-8010345*);* 12 MONTHS $47,441

UNIVERSITY OF IOWA

WU, HAN-CHIN; *ENDOCHRONIC THEORY FOR THE MECHANICAL BEHAVIOR OF SAND (CEE-7916590 A01);* 12 MONTHS $34,764

HAUG, EDWARD J; *OPTIMAL DESIGN OF DISTRIBUTED PARAMETER STRUCTURES (CEE-8005677 A01);* 12 MONTHS $66,139

RAMAPRIAN, B R; *FURTHER EXPERIMENTS ON THE TURBULENCE STRUCTURE OF TWODIMENSIONAL BUOYANT JETS (CEE-8006797);* 36 MONTHS $155,511

ARORA, JASBIR S; *EFFICIENT METHODS FOR OPTIMAL DESIGN OF LARGE COMPLEX STRUCTURAL SYSTEMS (CEE-8008109);* 12 MONTHS $37,304

CHWANG, ALLEN T; *NONLINEAR HYDRODYNAMIC PRESSURES ON DAMS DURING EARTHQUAKE (CEE-8020564);* 9 MONTHS $39,176

KENNEDY, JOHN F, AND JAIN, SUBHASH C; *CHARACTERISTIC TIMES AND RATES OF NONEQUILIBRIUM RIVER PROCESSES (CEE-8025003);* 12 MONTHS $44,634

KITANIDIS, PETER K; *RESEARCH INITIATION: IDENTIFICATION OF HYDROGEOLOGIC PARAMETERS EMPLOYED IN REGIONAL GROUNDWATER MODELS (CEE-8106577);* 24 MONTHS $47,886

KANSAS

UNIVERSITY OF KANSAS MAIN CAMPUS

DARWIN, DAVID; *ROLE OF CEMENT PASTE IN DEFORMATION AND CRACKING OF PLAIN CONCRETE (CEE-7918414 A01);* 12 MONTHS $47,838

DARWIN, DAVID; *CYCLIC BEHAVIOR OF CONCRETE BEAMS WITH LOW VALUES OF FLEXURAL REINFORCEMENT (CEE-7924696);* 24 MONTHS $192,971

KENTUCKY

UNIVERSITY OF KENTUCKY

HARDIN, BOBBY O; *PLASTIC HARDENING OF SOILS UNDER CLASS 2 LOADINGS (CEE-7909965 A01);* 12 MONTHS $37,891

RIZZO, FRANK J, AND SHIPPY, D J; *BOUNDARY INTEGRAL EQUATION ANALYSIS FOR A CLASS OF EARTH-STRUCTURE INTERACTION PROBLEMS (CEE-8013461);* 12 MONTHS $53,237

MOORE, IAN D; *RESEARCH INITIATION: MODELING THE EFFECTS OF SURFACE SEALING ON INFILTRATION (CEE-8105641);* 24 MONTHS $48,000

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

SEALS, ROGER K; *A PRELIMINARY EVALUATION OF THE LIQUEFACTION AND CYCLIC MOBILITY BEHAVIOR OF FINE COAL REFUSE TAILINGS (CEE-8024915);* 15 MONTHS $40,000

MARYLAND

ADVANCED TECHNOLOGY & RESEARCH INC

CHEN, JIGIEN; *IN-SITU DETERMINATION OF DAMPING OF SOILS (CEE-8113897*);* 6 MONTHS $10,000

ENVIRONMENTAL QUALITY SYSTEMS INC

WEINBERGER, LEON W; *DEVELOPMENT OF METHODOLOGY FOR RETROFITTING WATER AND WASTE SYSTEMS FOR IMPROVED SEISMIC RESISTANCE (CEE-8011189);* 24 MONTHS $84,395

MARTIN MARIETTA CORPORATION-MARTIN MARIETTA LABORATORY

SKALNY, JAN P; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: FORMATION AND REACTIVITY OF TRICALCIUM SILICATE AND DICALCIUM SILICATE (CEE-7902665 A01*);* 12 MONTHS $49,120

WINZER, STEPHEN R; *IMPROVING EFFICIENCY IN THE QUARRY INDUSTRY: IMPROVING DELAY PATTERNS IN PRODUCTION PRACTICE (CEE-7910285 A01);* 6 MONTHS $20,000

MORGAN STATE UNIVERSITY

BEADY, CHARLES H; *THE ROLE OF THE BLACK MEDIA IN DISASTER REPORTING TO THE BLACK COMMUNITY: A STUDY OF MESSAGE TRANSMISSION AND COMMUNITY RESPONSE (CEE-8103698);* 12 MONTHS $115,451

NATIONAL BUREAU OF STANDARDS

SIMIU, EMIL; *DEPENDENCE OF EXTREME WIND SPEEDS UPON DIRECTION, AND ITS EFFECT UPON THE ESTIMATION OF DESIGN LOADS (CEE-8025718);* 18 MONTHS $32,000

REINHOLD, TIMOTHY A; *WORKSHOP ON WIND TUNNEL MODELING CRITERIA AND TECHNIQUES IN WIND ENGINEERING APPLICATIONS (CEE-8103177);* 12 MONTHS $37,000

UNIVERSITY OF MARYLAND, COLLEGE PARK

ANTMAN, STUART S; *NONLINEAR PROBLEMS OF SOLID MECHANICS (MCS-8001844 A01*);* 1 MONTHS $9,153

HEINS, CONRAD P; *SEISMIC RESPONSE OF CURVED BOX GIRDER BRIDGES - U. S. / P. R. C. COOPERATIVE RESEARCH (CEE-8018729);* 24 MONTHS $114,084

MASSACHUSETTS

GEOTECHNICAL ENGINEERS INC

CASTRO, GONZALO; *FIELD INDEX TEST FOR ESTIMATING LIQUEFACTION POTENTIAL (CEE-8114111*);* 6 MONTHS $10,000

HARVARD UNIVERSITY

CARRIER, GEORGE F; *TSUNAMI PROPAGATION AND RUN-UP INVESTIGATION (CEE-8107884);* 12 MONTHS $50,000

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

VANMARCKE, ERIK H; *RISK-BASED ASSESSMENT OF THE SAFETY OF DAMS (CEE-7815898 A01);* 18 MONTHS $251,553

WHITMAN, ROBERT V; *MODELING DYNAMIC GROUND SHAKING BY CENTRIFUGE (CEE-7901815 A01);* 12 MONTHS $57,487

BIGGS, JOHN M; *FLEXIBLE SUB-SURFACE BUILDING-FOUNDATION INTERFACES FOR A SEISMIC DESIGN (CEE-7902989 A01);* 12 MONTHS $125,542

HARLEMAN, DONALD R; *EUTROPHICATION MODELS FOR LAKES: ANALYSIS OF HYDROTHERMAL-BIOCHEMICAL COUPLINGS IN RELATION TO PREDICTIVE CAPABILITY (CEE-7906125 A02);* 12 MONTHS $67,889

LANDAHL, MARTEN T, AND WIDNALL, SHEILA E; *THE ROLE OF SMALL SCALES IN THE GENERATION OF WATER WAVES BY WIND (CEE-7912152 A01);* 12 MONTHS $67,999

BRAS, RAFAEL L; *SAMPLING AND ESTIMATION OF UNCERTAIN FUNCTIONS (CEE-7919836 A01);* 12 MONTHS $73,600

MEI, CHIANG C; *DYNAMIC MECHANICAL RESPONSE OF SATURATED POROUS MEDIA IN GEOMECHANICS (CEE-7921993 A01*);* 12 MONTHS $49,440

KAUSEL, EDUARDO; *DYNAMIC BEHAVIOR OF EMBEDDED FOUNDATIONS (CEE-8012398);* 24 MONTHS $147,481

AKI, KEIITI, AND TUCKER, BRIAN; *EARTHQUAKE RESPONSE ANALYSIS OF SEDIMENT FILLED VALLEYS (CEE-8016243);* 24 MONTHS $131,430

LADD, CHARLES C; *STRESS-STRAIN ANISOTROPY OF SOILS UNDER GENERALIZED STATES OF STRESS (CEE-8103695);* 12 MONTHS $64,640

PATE, M ELISABE; *RESEARCH INITIATION: SEISMIC REGUALTION FOR EXISTING BUILDINGS IN THE BOSTON AREA: ECONOMIC AND SAFETY ANALYSIS (CEE-8106308);* 15 MONTHS $47,807

WINSTON, CLIFFORD; *RESEARCH INITIATION: PREDATORY BEHAVIOR IN THE MOTOR CARRIER INDUSTRY (CEE-8106576);* 12 MONTHS $46,938

UNIVERSITY OF MASSACHUSETTS, AMHERST

CHANG, CHING S; *EARTHQUAKE INDUCED FOOTING SETTLEMENT (CEE-8023541);* 24 MONTHS $129,546

SWITZENBAUM, MICHAEL S; *RESEARCH INITIATION: ANAEROBIC ATTACHED FILM EXPANDED BED REACTOR TREATMENT OF HIGH STRENGTH ORGANIC WASTES FOR ENERGY PRODUCTION AND POLLUTION CONTROL (CEE-8117482);* 12 MONTHS $17,426

WORCESTER POLYTECHNIC INSTITUTE

BROCARD, DOMINIQUE N, AND HECKER, GEORGE E; *SURFACE BUOYANT JETS IN REVERSING CURRENTS (CEE-8012661);* 24 MONTHS $131,091

MICHIGAN

MICHIGAN STATE UNIVERSITY

ANDERSLAND, ORLANDO B; *REINFORCED SAND-ICE CONSTRUCTION MATERIAL SYSTEMS (CEE-7915784 A01);* 12 MONTHS $48,153

CLOUD, GARY L; *WHOLE-FIELD INTERFEROMETRIC MEASUREMENT OF SURFACE FLOW AND STRAIN RATE IN IN-SITU ICE MASSES (CEE-8008273);* 12 MONTHS $25,914

MICHIGAN TECHNOLOGICAL UNIVERSITY

CRITTENDEN, JOHN C; *MATHEMATICAL MODELING OF FIXED BED ADSORPTION SYSTEMS FOR WATER TREATMENT (CEE-7924589 A01);* 12 MONTHS $38,005

UNIVERSITY OF MICHIGAN-ANN ARBOR

RICHART, FRANK E; *TIME EFFECTS ON DYNAMIC PROPERTIES OF COHESIVE SOILS (CEE-7822063 A02);* 12 MONTHS $58,100

GRAY, DONALD H; *MECHANICS OF FIBER AND ROOT REINFORCEMENT OF SANDY SOIL (CEE-7910553 A01);* 12 MONTHS $45,229

HANSON, ROBERT D; *U.S.-JAPAN COOPERATIVE EARTHQUAKE RESEARCH PROGRAM: DEVELOPMENT AND VERIFICATION OF THE PSEUDO-DYNAMIC TEST METHOD (CEE-8008583 A01);* 12 MONTHS $58,630

WYLIE, E BENJAMI; *RESPONSE OF NONLINEAR SOILS TO SEISMIC DISTURBANCES (CEE-8017429);* 24 MONTHS $130,391

HANSON, ROBERT D; *U.S.-JAPAN COOPERATIVE EARTHQUAKE RESEARCH PROGRAM: TEST OF FULL-SIZE REINFORCED CONCRETE BUILDING (CEE-8018901 A01);* 12 MONTHS $271,450

HANSON, ROBERT D; *US/PRC WORKSHOP ON SEISMIC ANALYSIS AND DESIGN OF REINFORCED CONCRETE STRUCTURES (CEE-8108125);* 12 MONTHS $44,413

MINNESOTA

UNIVERSITY OF MINNESOTA-GRAY FRESHWATER BIOLOGICAL INSTITUTE

CRAWFORD, RONALD L; *ECOLOGICAL BIOCHEMISTRY OF AROMATIC COMPOUND DEGRADATION IN NATURAL WATERS (CEE-8006949)*; 24 MONTHS $112,864

UNIVERSITY OF MINNESOTA-INSTITUTE OF TECHNOLOGY

BESKOS, DIMITRIOS E; *EARTHQUAKE RESPONSE OF FLEXIBLE FOUNDATIONS (CEE-8024725)*; 18 MONTHS $70,000

UNIVERSITY OF MINNESOTA

STRACK, OTTO D; *INTERACTIVE COMPUTER GRAPHICS ASSISTED DISTINCT ELEMENT APPROACHES IN GEOTECHNICAL ENGINEERING (CEE-7907799 A01)*; 12 MONTHS $89,933

SONG, CHARLES C, AND KILLEN, JOHN M; *THEORETICAL AND EXPERIMENTAL INVESTIGATION OF TRANSIENT MIXED-FLOWS, OPEN CHANNEL FLOW-CLOSED CONDUIT FLOW (CEE-8025160)*; 12 MONTHS $35,000

AIFANTIS, ELIAS C; *THERMOMECHANICAL RESPONSE OF FLUID-INFILTRATED FISSURED ROCK (CEE-8116611*)*; 12 MONTHS $42,361

HEXTER, ROBERT M, AND LITTLEJOHN, MICHAEL A; *WORKSHOP ON COOPERATION AND SHARING AMONG MICROELECTRONICS RESEARCH CENTERS (ECS-8120824*)*; 12 MONTHS $572

UNIVERSITY OF MINNESOTA AT SAINT PAUL

GALAMBOS, THEODORE V; *PREPARATION OF FOURTH EDITION OF 'GUIDE TO STABILITY DESIGN CRITERIA FOR METAL STRUCTURES' (CEE-8115346*)*; 36 MONTHS $32,631

MISSISSIPPI

MISSISSIPPI STATE UNIVERSITY

SINGH, VIJAY P, AND BOND, MARVIN T; *INTERNATIONAL SYMPOSIUM ON RAINFALL-RUNOFF MODELING TO BE HELD MAY 18-21, 1981 AT MISSISSIPPI STATE UNIVERSITY, MISSISSIPPI (CEE-8016890)*; 12 MONTHS $26,244

UNIVERSITY OF MISSISSIPPI

GUPTA, VINEY K; *FUNDAMENTAL STUDIES ON SUBSURFACE TRANSPORT THEORY (CEE-8004498 A01)*; 12 MONTHS $30,020

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

LIU, HENRY; *UNDERSTANDING WIND-INDUCED PRESSURE INSIDE BUILDINGS (CEE-8018679)*; 24 MONTHS $65,764

UNIVERSITY OF MISSOURI, ROLLA

CHENG, FRANKLIN Y; *OPTIMUM DESIGN OF THREE-DIMENSIONAL BUILDING SYSTEMS UNDER MULTICOMPONENT EARTHQUAKE MOTION (CEE-8019625)*; 24 MONTHS $169,178

PRAKASH, SHAMSHER; *INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN GEOTECHNICAL EARTHQUAKE ENGINEERING AND SOIL DYNAMICS (CEE-8026585*)*; 16 MONTHS $15,709

BATRA, ROMESH C; *RESEARCH INITIATION: 'RESPONSE OF PILE SUPPORTED STRUCTURES TO SEISMIC DISTURBANCES' (CEE-8106292)*; 15 MONTHS $47,953

MONTANA

MONTANA STATE UNIVERSITY

BROWN, ROBERT L; *A THERMODYNAMIC STUDY OF TEMPERATURE GRADIENT METAMORPHISM OF DRY SNOW PACK (CEE-7901636 A03)*; 12 MONTHS $30,000

BROWN, ROBERT L; *STRESS WAVES IN WET SNOW (CEE-7918050 A01)*; 12 MONTHS $23,464

BROWN, ROBERT L; *SPECIALIZED ENGINEERING RESEARCH EQUIPMENT: AN IMAGE ANALYZER FOR MECHANICS RESEARCH IN SNOW AND OTHER PARTICULATE MATERIALS OF CIVIL ENGINEERING INTEREST (CEE-8104745)*; 12 MONTHS $40,000

NEVADA

DEPARTMENT OF ENERGY-NEVADO OPERATIONS OFFICE

WADE, TROY E; *VIBRATION TESTING OF AN EPOXY-REPAIRED 4-STORY CONCRETE STRUCTURE (CEE-7812714 A02)*; 12 MONTHS $145,390

UNIVERSITY OF NEVADA, RENO

SAIIDI-MOVAHHED, MEHDI; *SIMPLE EARTHQUAKE ANALYSIS OF MULTISTORY REINFORCED CONCRETE STRUCTURES (CEE-8006423 A01)*; $7,422

NEW JERSEY

PRINCETON UNIVERSITY

CAKMAK, AHMET S, AND BABU, D KRISHNA; *TRANSIENT FLOWS OF LIQUIDS THROUGH INHOMOGENEOUS AND FRACTURED POROUS MEDIA: SOLUTIONS BY PERTURBATIONS (CEE-7824413 A02)*; 12 MONTHS $92,716

GRAY, WILLIAM G, PINDER, GEORGE F, AND CRERAR, DAVID A; *INVESTIGATION INTO THE PHYSICAL-CHEMICAL ASPECTS OF SOLUTION MINING (CEE-7920996 A01*)*; 12 MONTHS $78,830

GRAY, WILLIAM G; *A TWO-DIMENSIONAL FINITE ELEMENT MODEL FOR SURFACE FLOW SIMULATION (CEE-7921076 A01)*; 12 MONTHS $32,377

PREVOST, JEAN H, AND SCANLAN, ROBERT H; *EFFECTS OF STRESS WAVES IN DYNAMIC SOIL TESTS EMPLOYING THE CENTRIFUGE TECHNIQUE (CEE-8015957*)*; 12 MONTHS $93,219

ABDEL-GHAFFAR, AHMED M; *EARTHQUAKE RESPONSE ANALYSIS OF SUSPENSION BRIDGES (ISE-8017736)*; 12 MONTHS $2,264

NEW MEXICO

UNIVERSITY OF NEW MEXICO

MAY, GERALD W; *INTERNATIONAL WORKSHOP ON EARTHEN BUILDING MATERIALS AND METHODS IN SEISMIC AREAS (CEE-7919671 A01)*; $6,000

NEW YORK

AMERICAN SOCIETY OF CIVIL ENGINEERS

JONES, EDWIN; *DEVELOPMENT OF GUIDELINES FOR EARTHQUAKE ENGINEERING GAS AND LIQUID FUEL LIFELINES (CEE-7923559)*; 12 MONTHS $175,652

TUVEL, HARRY N; *WORKSHOP ON WATER CONSERVATION AND REUSE IN INDUSTRY AND AGRICULTURE: RESEARCH NEEDS (ISE-8104452)*; 12 MONTHS $25,508

CLARKSON COLLEGE OF TECHNOLOGY

ACKERMANN, NORBERT L, SHEN, HUNG, AND PONCE-CAMPOS, C DAVID; *SHEAR FLOW OF WATER-BORNE FRAGMENTED ICE FIELDS (CEE-8011601)*; 12 MONTHS $51,725

SHAHINPOOR, MOHSEN; *DETERMINATION OF THE FREQUENCY DISTRIBUTION OF VOIDS IN RANDOMLY PACKED TWO-DIMENSIONAL GRANULAR ASSEMBLIES BY SPECIAL OPTICAL SCANNING TECHNIQUES (CME-8021092)*; 12 MONTHS $25,000

COLUMBIA UNIVERSITY

SHINOZUKA, MASANOBU, LONGMAN, RICHARD W, AND STUBBS, N; *RESPONSE OF FLOATING STRUCTURES TO EARTHQUAKE AND OTHER DYNAMIC LOADS (CEE-8019275*)*; 12 MONTHS $121,724

SHINOZUKA, MASANOBU; *SEISMIC RISK ANALYSIS AND ITS APPLICATION TO RELIABILITYBASED DESIGN OF LIFELINE SYSTEMS (INT-8115472*)*; 12 MONTHS $2,500

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

SIMPSON, DAVID W; *INDUCED SEISMICITY AT NUREK RESERVOIR, TADJIKISTAN, USSR (CEE-7926698 A01)*; 12 MONTHS $79,000

SCHOLZ, CHRISTOPH H; *DEVELOPMENT OF A MAP OF INSTANTANEOUS SEISMIC HAZARD (CEE-8022096)*; 24 MONTHS $150,000

RICHARDS, PAUL G, AND DAS, SHAMITA; *QUANTITATIVE STUDIES OF HIGH FREQUENCY STRONG GROUND MOTION (CEE-8023170)*; 12 MONTHS $50,234

COOPER UNION

CATALDO, JOSEPH C; *AN EXPERIMENTAL STUDY OF THERMAL FRONTS (CEE-8008933)*; 12 MONTHS $43,398

CORNELL UNIVERSITY

MCGUIRE, WILLIAM, ABEL, JOHN F, AND GREENBERG, DONALD P; *NONLINEAR ANALYSIS AND DESIGN OF STEEL FRAMES (CEE-7815557 A02)*; 12 MONTHS $141,511

ABEL, JOHN F; *THREE-DIMENSIONAL INTERACTIVE COMPUTER GRAPHICS IN STRUCTURAL- AND GEO-MECHANICS (CEE-7916818 A02*)*; 12 MONTHS $253,536

MUKHERJEE, SUBRATA; *ANALYSIS OF INELASTIC DEFORMATION IN METALS BY THE BOUNDARY ELEMENT METHOD (CEE-7918658 A01)*; 12 MONTHS $42,540

GOSSETT, JAMES M; *ALUMINUM-ORGANIC INTERACTIONS INFLUENCING ANAEROBIC DIGESTION OF COAGULATED SUBSTRATES (CEE-7923267 A01)*; 12 MONTHS $50,000

NILSON, ARTHUR H, AND SLATE, FLOYD O; *BEHAVIOR OF HIGH STRENGTH CONCRETE BEAMS (CEE-7926392 A01)*; 12 MONTHS $115,574

STEDINGER, JERY R; *STOCHASTIC STREAMFLOW MODELS: VALIDATION AND PARAMETER UNCERTAINTY (CEE-8010889)*; 24 MONTHS $118,046

MILLER, ROBERT D; *HYDRAULIC CONDUCTIVITY OF FROZEN SOIL (CEE-8017422)*; 12 MONTHS $25,260

O'ROURKE, THOMAS D; *BURIED PIPELINE RESPONSE TO EARTHQUAKE-INDUCED GROUND FAILURE (CEE-8022427)*; 24 MONTHS $175,000

LIANG, TA; *ACQUISITION OF INTERACTIVE DIGITAL IMAGE ANALYSIS EQUIPMENT (CEE-8104731)*; 12 MONTHS $27,000

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

LOUCKS, DANIEL P, AND GREENBERG, DONALD P; *INTERACTIVE WATER RESOURCES PLANNING USING COMPUTER GRAPHICS (CEE-7815858 A02)*; 12 MONTHS $111,238

LIGGETT, JAMES A, AND LIU, PHILIP L; *BOUNDARY INTEGRAL SOLUTIONS TO GROUNDWATER PROBLEMS (CEE-7902803 A01)*; 12 MONTHS $70,719

BRUTSAERT, WILFRIED H; *SURFACE GAS TRANSFER IN ENVIRONMENTAL WATERS (CEE-8004621 A01)*; 12 MONTHS $111,879

GERGELY, PETER; *DESIGN OF SPLICES IN REINFORCED CONCRETE FRAMES AND FLAT ELEMENTS FOR EARTHQUAKE EFFECTS (CEE-8011115)*; 12 MONTHS $82,700

INGRAFFEA, ANTHONY R; *INTERACTION BETWEEN STEEL AND CONCRETE FOR EARTHQUAKE TYPE LOADINGS (CEE-8020825)*; 12 MONTHS $67,620

GERGELY, PETER; *COOPERATIVE RESEARCH BETWEEN CORNELL UNIVERSITY, OTHER U.S. RESEARCH LABORATORIES, AND RESEARCH LABORATORIES IN THE NETHERLANDS (CEE-8023479)*; 24 MONTHS $25,800

POLYTECHNIC INSTITUTE OF NEW YORK

KOZIN, FRANK; WANG, PING CHUN; AND DRENICK, RUDOLF F; *ACTIVE CONTROL OF CIVIL ENGINEERING STRUCTURES (CEE-7825430 A01)*; 12 MONTHS $99,600

RENSSELAER POLYTECHNIC INSTITUTE

SHEPHARD, MARK S; *FINITE ELEMENT GRID OPTIMIZATION USING INTERACTIVE COMPUTER GRAPHICS (CEE-7916849 A01)*; 12 MONTHS $35,000

TADJBAKHSH, IRADJ G; *ANALYSIS OF OPTIMAL BASE ISOLATION OF EARTHQUAKE EFFECTS IN STRUCTURES (CEE-8007785)*; 24 MONTHS $121,600

SPILLERS, WILLIAM R; *OPTIMAL STRUCTURAL GEOMETRY FOR MULTIPLE LOADING CONDITIONS (CEE-8015780)*; 12 MONTHS $48,593

DOBRY, RICARDO; *EXPERIMENTAL STUDY OF THE CYCLIC CONSTITUTIVE RELATION OF SATURATED SANDS DURING UNDRAINED LOADING (CEE-8020779)*; 12 MONTHS $74,371

HIRTZEL, CYNTHIA S; *RESEARCH INITIATION: DISTRIBUTIONS OF EXTREME VALUES OF SEQUENCES OF AUTOCORRELATED RANDOM VARIABLES (CEE-8105941)*; 24 MONTHS $48,000

STATE UNIVERSITY AT BUFFALO

SOONG, TSU T; *ACTIVE CONTROL IN STRUCTURAL ENGINEERING (CEE-8010891)*; 12 MONTHS $47,397

SHAW, RICHARD P; *DYNAMIC ANALYSES OF PILE GROUPS UNDER AXIAL AND LATERAL LOADS (CEE-8018402)*; 12 MONTHS $49,420

STEVEN WINTER ASSOCIATES INC

WINTER, STEVEN; *IDENTIFICATION OF POTENTIAL CONFLICTS BETWEEN PASSIVE SOLAR DESIGN AND SEISMIC RISKS IN RESIDENTIAL AND COMMERCIAL BUILDINGS (CEE-8113438)*; 12 MONTHS $97,372

SYRACUSE RESEARCH CORPORATION

LAMBRIGHT, W HENRY; *THE ROLE OF STATES IN EARTHQUAKE AND NATURAL HAZARD MITIGATION AT THE LOCAL LEVEL (CEE-8018710)*; 30 MONTHS $199,172

SYRACUSE UNIVERSITY

MANDEL, JAMES A; *FRACTURE MECHANICS OF FIBROUS COMPOSITE MATERIALS (CEE-8011602)*; 12 MONTHS $45,240

NORTH CAROLINA

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION-NATIONAL CLIMATIC CENTER

CHANGERY, MICHAEL J; *DEPENDENCE OF EXTREME WIND SPEEDS UPON DIRECTION, AND ITS EFFECT UPON THE ESTIMATION OF DESIGN WIND LOADS (CEE-8115313)*; 18 MONTHS $33,000

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

RAHMAN, M SHAMIMU; *RESEARCH INITIATION: RESPONSE OF SOIL MASSES TO RANDOM SEISMIC ENVIRONMENT (CEE-8106301)*; 15 MONTHS $46,600

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

DIGIANO, FRANCIS A; *INTERACTION BETWEEN MICROBIAL DEGRADATION AND ADSORPTION IN THE 'BIOLOGICAL ACTIVATED CARBON (BAC) PROCESS' (CEE-8114350*)*; 12 MONTHS $69,496

OHIO

CASE WESTERN RESERVE UNIVERSITY

HAIMES, YACOV Y; *THE INTERGRATION OF THE HIERARCHICAL AND MULTIOBJECTIVE APPROACHES (CEE-7903605 A02)*; 12 MONTHS $60,000

GAZETAS, GEORGE; *SOIL ANISOTROPY IN SOILS-STRUCTURE INTERACTION (CEE-8014105)*; 12 MONTHS $38,889

GASPARINI, DARIO A. AND GASPARINI, DARIO A; *RANDOM VIBRATION ANALYSIS OF EARTH DAMS UNDER EARTHQUAKES (CEE-8017684)*; 18 MONTHS $68,222

HUCKELBRIDGE, ARTHUR; *DESIGN METHODOLOGY FOR STRUCTURES WITH LARGE SEISMIC OVERTURNING MOMENTS (CEE-8025351)*; 20 MONTHS $76,409

OHIO STATE UNIVERSITY

BISHARA, ALFRED G; *VERIFICATION OF CONSTITUTIVE RELATIONS FOR SILAGE THROUGH FULL-SCALE SILO MEASUREMENTS (CEE-7908408 A01)*; 12 MONTHS $61,999

QUARANTELLI, ENRICO L; *EMERGENT CITIZEN GROUPS IN DISASTER PREPAREDNESS AND RECOVERY ACTIVITIES (CEE-8113191)*; 18 MONTHS $330,000

YOUNGSTOWN STATE UNIVERSITY

KHAN, IRFAN A; *INVERSE PROBLEM IN GROUNDWATER (CEE-8025809)*; 12 MONTHS $22,142

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

LANGE, JAMES N; *ACOUSTIC PROPERTIES OF PARTIALLY SATURATED GEOTHERMAL AND PETROLEUM RESERVOIRS (CEE-8019278)*; 12 MONTHS $50,627

SONI, A H; *SEISMIC ANALYSIS FOR ROTATING MECHANICAL SYSTEMS (CEE-8108119)*; 12 MONTHS $50,000

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

WANG, LEON R; *DEVELOPMENTS FOR SEISMIC PERFORMANCE EVALUATION OF BURIED LIFELINES (CEE-8025172)*; 12 MONTHS $50,443

OREGON

LEWIS AND CLARK COLLEGE

HUFFMAN, JAMES L; *GOVERNMENT LIABILITY AND EARTHQUAKE PREDICTION: A COMPARATIVE STUDY (CEE-8109740)*; 24 MONTHS $170,816

OREGON STATE UNIVERSITY

NATH, JOHN H; *HYDRODYNAMIC ROUGHNESS OF MARINE GROWTHS ON CYLINDERS (CEE-7911787 A01)*; 12 MONTHS $90,158

VINSON, TED S; *DYNAMIC PROPERTIES OF NATURALLY FROZEN SOILS (CEE-7919697 A01)*; 12 MONTHS $43,259

BROOKS, ROYAL H, AND COREY, ARTHUR T; *HYDRAULIC PROPERTIES OF EARTH MATERIALS AS AFFECTED BY CLAY-WATER INTERACTION (CEE-8003499)*; 24 MONTHS $84,299

HOLMAN, ROBERT A; *A SIMPLE SURF ZONE FORCING MODEL FOR INFRAGRAVITY EDGE WAVES (OCE-8007978*)*; 12 MONTHS $11,881

POLENSEK, ANTON; *DAMAGE AND COLLAPSE BEHAVIOR OF LOW-RISE WOOD-FRAMED BUILDINGS DURING EARTHQUAKES (CEE-8104626)*; 24 MONTHS $249,500

UNIVERSITY OF OREGON - EUGENE

CORNER, DONALD B; *RESEARCH INITIATION: ALTERNATIVES FOR HOUSING RECOVERY FOLLOWING AN EARTHQUAKE DISASTER (CEE-8106309)*; 15 MONTHS $48,000

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

FENVES, STEVEN J; *COMPUTER METHODs FOR CONSISTENT FORMULATION OF EARTHQUAKE DESIGN MODIFICATIONS (CEE-8013746)*; 24 MONTHS $163,791

DAVIDSON, CLIFF I, AND LUTHY, RICHARD G; *ION CHROMATOGRAPHY FOR ANALYSIS OF ENVIRONMENTAL SAMPLES (CEE-8103683)*; 12 MONTHS $13,410

DREXEL UNIVERSITY

HARRIS, HARRY G; *A STUDY OF SEISMIC BEHAVIOR OF PRECAST CONCRETE LARGE PANEL BUILDINGS USING A SMALL SHAKE TABLE (CEE-7924723)*; 24 MONTHS $162,000

LEHIGH UNIVERSITY

DRISCOLL, GEORGE C; *DATA ACQUISITION SYSTEM AND LOADING EQUIPMENT (CEE-8007519)*; 12 MONTHS $87,000

LU, LE-WU; *U.S.-JAPAN COOPERATIVE EARTHQUAKE RESEARCH PROGRAM: DESIGN AND PRELIMINARY EXPERIMENTAL STUDIES FOR THE RECOMMENDED STRUCTURAL STEEL TEST BUILDING (CEE-8008587 A01)*; 16 MONTHS $96,970

DRISCOLL, GEORGE C; *FRACTURE OF STEEL MOMENT CONNECTIONS DUE TO SEISMIC BUILDING LOADINGS (CEE-8022041)*; 12 MONTHS $108,000

BEEDLE, LYNN S; *SYMPOSIUM ON STABILITY PROBLEMS OF TALL BLDGS., CHICAGO, ILLINOIS, APRIL 7-8, 1981 (CEE-8022093)*; 12 MONTHS $14,500

BEEDLE, LYNN S; *EARTHQUAKE RESISTANCE OF HIGH-RISE BUILDING SYSTEMS (CEE-8105306)*; 12 MONTHS $187,855

LENNON, GERARD P; *RESEARCH INITIATION: THREE-DIMENSIONAL WAVE-INDUCED FORCES ON BURIED PIPELINES (CEE-8105821)*; 24 MONTHS $48,000

PENNSYLVANIA STATE UNIVERSITY

UNZ, RICHARD F; *THE ISOLATION AND CHARACTERIZATION OF FILAMENTOUS MICROORGANISMS FROM ACTIVATED SLUDGE BULKING (CEE-7918919 A01)*; 12 MONTHS $124,309

UNIVERSITY OF PITTSBURGH

FLEMING, JOHN F; *SEISMIC DESIGN OF CABLE-STAYED BRIDGE STRUCTURES (CEE-7923023)*; 24 MONTHS $85,724

RHODE ISLAND

BROWN UNIVERSITY

SYMONDS, PAUL S; *SIMPLE APPROXIMATION METHOD FOR PULSE LOADED STRUCTURES INCLUDING ELASTIC DEFORMATIONS, FINITE DEFLECTIONS AND STRAIN RATE SENSITIVITY (CEE-7926147 A01)*; 12 MONTHS $54,775

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY

MAYER, LARRY A, AND SILVA, ARMAND J; *CONSOLIDATION AND STRESS HISTORY OF DEEP-SEA SEDIMENTS: D S D P HYDRAULIC PISTON CORE SAMPLES (OCE-8018480*)*; 12 MONTHS $24,530

UNIVERSITY OF RHODE ISLAND

KELLY, WILLIAM E; *RATE PROCESS PARAMETERS FOR EROSION OF WEAK COHESIVE SOILS (CEE-7926297 A01)*; 12 MONTHS $60,400

SOUTH CAROLINA

CLEMSON UNIVERSITY

ANAND, SUBHASH C; *SEISMIC RESPONSE OF COMPOSITE MASONRY IN NEW AND EXISTING STRUCTURES (CEE-8026767)*; 12 MONTHS $77,601

ELLING, RUDOLF E; *RESEARCH INITIATION: 'SEISMIC RESPONSE OF BURIED CYLINDRICAL STRUCTURES' (CEE-8106315)*; 15 MONTHS $47,675

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

ROBERTS, R B; *A MODEL FOR MEASURING REGIONAL ECONOMIC RESPONSES TO EARTHQUAKES AND TO EARTHQUAKE PREDICTIONS (CEE-8019826)*; 12 MONTHS $159,374

SOUTH DAKOTA

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY

BANERJEE, SUNIRMAL; *RESEARCH INITIATION: DEVELOPMENT OF AN IN-SITU ELECTRO-OSMOTIC TESTING DEVICE FOR MEASUREMENT OF SOIL CONSOLIDATION PARAMETERS (CEE-8106340)*; 24 MONTHS $48,000

TENNESSEE

UNIVERSITY OF TENNESSEE AT KNOXVILLE

BURDETTE, EDWIN G; *INELASTIC EARTHQUAKE RESPONSE SPECTRA FOR ANALYSIS AND DESIGN OF CONCRETE STRUCTURES (CEE-8013340)*; 24 MONTHS $100,079

TEXAS

NORTH TEXAS STATE UNIVERSITY

FAIRCHILD, THOMAS J; *MENTAL HEALTH SERVICES AND ELDERLY DISASTER VICTIMS (CEE-8112582)*; 12 MONTHS $49,660

RICE CENTER FOR COMMUNITY DESIGN&RESEARCH INC

SAVINO, CHARLES R; *EARTHQUAKE RISK ANALYSIS FOR LAND USE PLANNING (CEE-8008920)*; 18 MONTHS $160,462

SCIENTIFIC MEASUREMENT SYSTEMS INC

MORGAN, IRA LON; *TOMOGRAPHIC ASSESSMENT TECHNIQUES FOR EARTHQUAKE ENGINEERING (CEE-8113999*)*; 6 MONTHS $10,000

UNIV OF TEXAS AT AUSTIN

OLSON, ROY E; *THEORETICAL AND EXPERIMENTAL STUDIES OF CONSOLIDATION OF SOILS AROUND SAND DRAINS (CEE-7918195 A01)*; 12 MONTHS $45,513

SPANOS, POL; *LINEARIZATION TECHNIQUES FOR FLOW-INDUCED VIBRATIONS (CME-7918570 A01)*; 12 MONTHS $38,369

STERN, MORRIS; *BOUNDARY INTEGRAL METHODS FOR PLATE BENDING CALCULATIONS (CEE-7919529 A01)*; 12 MONTHS $27,662

HOLLEY, E R; *TRANSPORT OF EFFLUENTS IN RIVERS, PHASE II (CEE-7923183 A01)*; 12 MONTHS $55,000

JIRSA, JAMES O, AND KLINGNER, RICHARD E; *U.S.-JAPAN COOPERATIVE EARTHQUAKE RESEARCH PROGRAM: FULL-SCALE TESTS OF BEAM-COLUMN JOINTS (CEE-8009039 A01)*; 12 MONTHS $44,368

KYRIAKIDES, STELIOS; *RESEARCH INITIATION: PLASTIC COLLAPSE OF LONG CYLINDRICAL SHELLS UNDER COMBINED BENDING AND EXTERNAL PRESSURE (CEE-8105539)*; 24 MONTHS $47,928

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

ANDREWS, JOHN F; *COMPUTER CONTROL OF THE ACTIVATED SLUDGE PROCESS (CEE-7926491 A01)*; 12 MONTHS $70,348

KAREEM, AHSAN; *CROSSWIND RESPONSE OF TOWERS AND STACKS OF CIRCULAR CROSS-SECTION (CEE-8019392)*; 12 MONTHS $46,642

UTAH

UNIVERSITY OF UTAH

OLSEN, JOSEPH M; *RESEARCH INITIATION: DYNAMIC BEHAVIOR OF SENSITIVE CLAYS (CEE-8106304)*; 15 MONTHS $45,460

MOSTAGHEL, N; *EARTHQUAKE ISOLATION OF STRUCTURES WITH SLINKY TYPE SUPPORTS (CEE-8112580)*; 15 MONTHS $47,977

VIRGINIA

GEOLOGICAL SURVEY

BORCHERDT, ROGER D; *THE NATIONAL STRONG-MOTION PROGRAM (CEE-7907125 A10)*; 12 MONTHS $1,350,030

GREGORY, JOHN B; *THE MECHANICS OF MULTI-YEAR SEA ICE, A JOINT GOVERNMENT/INDUSTRY RESEARCH PROPOSAL TO THE SHELL DEVELOPMENT COMPANY AND THE U.S. GEOLOGICAL SURVEY, MARCH 1981 (CEE-8115268)*; 12 MONTHS $15,000

UNIVERSITY OF VIRGINIA

BABER, THOMAS T; *RANDOM VIBRATIONS OF MULTIDEGREE OF FREEDOM, HYSTERETIC DEGRADING STRUCTURES (CEE-8119584)*; 24 MONTHS $119,155

VIRGINIA POLYTECHNIC INSTITUTE

PLAUT, RAYMOND H; *STABILITY OF STRUCTURES UNDER GENERAL LOADING CONDITIONS (CEE-7920781 A01)*; 12 MONTHS $46,571

KUO, CHIN Y; *A TWO-DIMENSIONAL DEPTH AVERAGED HYDRODYNAMIC MODEL TO SIMULATE FLOW IN OPEN CHANNELS WITH COMPLEX GEOMETRIES (CEE-8004364)*; 24 MONTHS $92,043

HALLAUER, WILLIAM L; *EQUIPMENT FOR EXPERIMENTAL STRUCTURAL DYNAMICS RESEARCH (CEE-8014059)*; 12 MONTHS $62,500

MEIROVITCH, LEONARD; *COMPUTATIONAL TECHNIQUES FOR ACTIVE CONTROL OF LARGE STRUCTURES UNDER SEISMIC LOADING (CEE-8020623)*; 24 MONTHS $144,367

SINGH, M P; *SEISMIC DESIGN RESPONSE EVALUATION OF STRUCTURAL SYSTEMS WITH NONPROPORTIONAL DAMPING CHARACTERISTICS (CEE-8023978)*; 12 MONTHS $43,651

SPARKS, PETER R; *RESEARCH INITIATION: THE ASSESSMENT OF THE DYNAMIC CHARACTERISTICS OF EXISTING BUILDINGS (CEE-8105784)*; 15 MONTHS $47,021

ROJIANI, KAMAL B; *RESEARCH INITIATION: INVESTIGATION OF THE RELIABILITY OF WOOD MEMBERS UNDER COMBINED STRESS (CEE-8105946)*; 24 MONTHS $48,000

SINGH, M P; *DEVELOPMENT OF SEISMIC DESIGN RESPONSE SPECTRA FOR SUPPORTED LIGHT EQUIPMENT AND NONSTRUCTURAL COMPONENTS (CEE-8109100)*; 15 MONTHS $64,895

WASHINGTON

BATTELLE MEMORIAL INSTITUTE-BATTELLE HUMAN AFFAIRS RESEARCH CENTERS

PERRY, RONALD W; *MINORITY CITIZEN WARNING RESPONSE AND INVOLVEMENT IN COMMUNITY HAZARD PLANNING (CEE-8019297)*; 24 MONTHS $307,542

UNIVERSITY OF WASHINGTON

DUNNE, THOMAS; *THE EVOLUTION OF HILLSLOPES BY WATER EROSION (EAR-8018286*)*; 24 MONTHS $30,200

NYBERG, FOLKE; *STRATEGIES FOR RESTORING OLDER BUILDINGS IN SEISMIC REGIONS (CEE-8021118)*; 12 MONTHS $78,350

HAWKINS, NEIL M, HARTZ, BILLY J, AND MILLER, WILLIAM M; *FOURTH U. S. NATIONAL CONFERENCE ON WIND ENGINEERING RESEARCH, JULY 27-29, 1981 AT THE UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON (CEE-8023977)*; 12 MONTHS $30,034

BROWN, COLIN B; *SEISMIC SAFETY ASSESSMENT (CEE-8026585)*; 24 MONTHS $68,608

NYBERG, FOLKE; *WORKSHOP ON SEISMIC RETROFITTING OF BUILDINGS IN THE PUGET SOUND AREA (CEE-8100531)*; 12 MONTHS $27,577

MAY, PETER J, AND GOODISMAN, LEONARD; *RESEARCH INITIATION: PROBLEMS IN FORMULATING DISASTER RELIEF (CEE-8105778)*; 15 MONTHS $39,695

STANTON, JOHN F; *RESEARCH INITIATION: PERFORMANCE OF PRESTRESSED CONCRETE PILES UNDER EARTHQUAKE LOADS (CEE-8107460)*; 12 MONTHS $59,790

WOLFE, MYER R; *U.S.-ITALY SEMINAR ON URBAN SCALE VULNERABILITY (CEE-8113633)*; 11 MONTHS $8,441

WASHINGTON STATE UNIVERSITY

HALLAGAN, WILLIAM, AND JOERDING, WAYNE; *THE ALLOCATION OF RELIEF FUNDS IN NATURAL DISASTERS: THE CASE OF MT. ST. HELENS (CEE-8109743)*; 11 MONTHS $23,361

ITANI, RAFIK Y; *DAMAGE AND COLLAPSE BEHAVIOR OF LOW-RISE WOOD-FRAMED BUILDINGS DURING EARTHQUAKES (CEE-8114580)*; 24 MONTHS $75,514

WEST VIRGINIA

WEST VIRGINIA UNIVERSITY

ZAGAJESKI, STAN W; *RESEARCH INITIATION: BIAXIAL EFFECTS IN SEISMIC RESISTANT REINFORCED CONCRETE FRAME STRUCTURES (CEE-8106288)*; 15 MONTHS $48,000

WISCONSIN

UNIVERSITY OF WISCONSIN-GREEN BAY

ATKISSON, ARTHUR A; *EVALUATION OF ORDINANCES FOR EARTHQUAKE HAZARD ABATEMENT IN EXISTING BUILDINGS (CEE-8024728)*; 12 MONTHS $148,613

UNIVERSITY OF WISCONSIN-MILWAUKEE

VINNAKOTA, SRIRAMULU; *INFLUENCE OF IMPERFECTIONS ON THE MAXIMUM STRENGTH OF RESTRAINED, BI-AXIALLY LOADED BEAM-COLUMNS (CEE-8019296)*; 16 MONTHS $82,650

CHRISTENSEN, ERIK B; *ALGAL GROWTH UNDER MULTIPLE TOXICANT LIMITING CONDITIONS (CEE-8103650)*; 12 MONTHS $25,797

UNIVERSITY OF WISCONSIN-RIVER FALLS

BAKER, ROBERT W; *DEVELOPMENT OF FABRIC AND FOLIATION IN ICE AND THE EFFECT OF ANISOTROPY ON CREEP (EAR-7901761 A01*)*; 12 MONTHS $5,000

MECHANICAL ENGINEERING AND APPLIED MECHANICS

ALABAMA

UNIVERSITY OF ALABAMA

MCGOWAN, JOHN J; *STRESS INTENSITY FACTOR VARIATION IN NATURAL SURFACE FLAW SHAPES (MEA-8018959)*; 24 MONTHS $96,250

ARIZONA

UNIVERSITY OF ARIZONA

MCELIGOT, DONALD M; *TURBULENCE STRUCTURE IN COMPLEX HEATED FLOW (MEA-7907806 A01)*; 12 MONTHS $93,647

CHEN, CHUAN F; *DOUBLE DIFFUSIVE CONVECTION (MEA-8020213)*; 12 MONTHS $31,506

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

WU, THEODORE Y; *BIOPHYSICAL FLUID MECHANICS (MEA-7721436 A04)*; 12 MONTHS $89,700

COLES, DONALD, AND ROSHKO, ANATOL; *LARGE EDDIES IN TURBULENT SHEAR FLOW (MEA-7723541 A03)*; 12 MONTHS $50,000

STURTEVANT, BRADFORD; *PROPAGATION OF SHOCK WAVES IN RANDOM MEDIA (MEA-7822089 A02*)*; 12 MONTHS $42,020

SABERSKY, ROLF H, BRENNEN, CHRISTOPH E, GROSS, L H, AND HAGERTY, R O; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH PROGRAM: FLOW AND HEAT TRANSFER IN GRANULAR MEDIA (MEA-7915122 A01*)*; 12 MONTHS $35,162

LEAL, L GARY; *FLUID MECHANICS OF BUBBLES, DROPS, AND RIGID PARTICLES (MEA-8003485 A01*)*; 12 MONTHS $24,573

DIMOTAKIS, PAUL E; *VORTICITY MEASUREMENTS IN TURBULENT SHEAR FLOW (MEA-8022945)*; 12 MONTHS $40,388

CALIFORNIA STATE UNIVERSITY, LONG BEACH

CEBECI, TUNCER; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH: THEORETICAL AND EXPERIMENTAL ANALYSIS OF INTERACTING FLOWS OVER MULTIELEMENT AIRFOILS AT HIGH REYNOLDS NUMBERS (MEA-8018565*)*; 12 MONTHS $60,140

MACHINE INTELLIGENCE CORPORATION

ROSEN, CHARLES A; *MICROCOMPUTER-BASED NATURAL LANGUAGE UNDERSTANDING (MEA-8018281*)*; 18 MONTHS $8,212

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION-AMES RESEARCH CENTER

GIOVANNETTI, ANGELO; *CENTRIFUGE FACILITY FOR RESEARCH IN GEOTECHNICAL ENGINEERING (CEE-7826128 A05*)*; $82,344

SRI INTERNATIONAL

GUPTA, Y M; *DEVELOPMENT OF A MODEL FOR SHEAR CRACKING IN BRITTLE MATERIALS (MEA-7833534 A02)*; 12 MONTHS $65,930

NITZAN, DAVID; *MACHINE INTELLIGENCE RESEARCH APPLIED TO INDUSTRIAL AUTOMATION (MEA-8023130)*; 24 MONTHS $460,000

BARNARD, STEPHEN; *AUTOMATIC VISUAL INSPECTION OF PRINTED CIRCUIT BOARDS (MEA-8114761)*; 12 MONTHS $149,996

STANFORD UNIVERSITY

VAN DYKE, MILTON D; *FLOW CALCULATION BY COMPUTER EXTENSION AND IMPROVEMENT OF PERTURBATION SERIES (MEA-7824412 A02)*; 12 MONTHS $44,996

MOFFAT, ROBERT J; *HEAT TRANSFER IN A CHANNEL WITH ONE ROUGH WALL (MEA-7906337 A01)*; 12 MONTHS $40,281

REYNOLDS, WILLIAM C; *FUNDAMENTAL STUDIES OF UNSTEADY TURBULENT BOUNDARY LAYERS (MEA-7921564 A01)*; 12 MONTHS $58,411

JOHNSTON, JAMES P; *STRUCTURE OF REATTACHING TURBULENT SHEAR FLOWS (MEA-8017860)*; 12 MONTHS $113,025

MCCARTHY, JOHN; *EXPLORATORY RESEARCH IN INTEGRATED PROGRAMMABLE AUTOMATION (MEA-8019628)*; 12 MONTHS $222,860

LEE, ERASTUS H; *WORKSHOP ON PLASTICITY OF METALS AT FINITE STRAIN: THEORY, EXPERIMENT AND COMPUTATION (MEA-8106604)*; 12 MONTHS $17,389

UNIVERSITY OF CALIFORNIA, BERKELEY

TALBOT, LAWRENCE, AND BERGER, STANLEY A; *FLOW THROUGH HEART VALVES AND LARGE VESSELS (MEA-7723954 A03)*; 6 MONTHS $50,322

TIEN, CHANG-LIN, AND SEBAN, R A; *HEAT TRANSFER THROUGH POROUS INSULATION (MEA-7813322 A02)*; 12 MONTHS $54,404

HURLBUT, FRANKLIN C, AND TALBOT, LAWRENCE; *GAS DYNAMICAL ISOTOPE SEPARATION IN THE OPPOSED JET CONFIGURATION (MEA-7901139 A02)*; 12 MONTHS $64,000

DORNFELD, DAVID; *TOOL WEAR SENSING VIA ACOUSTIC EMISSION ANALYSIS (MEA-7917326 A01)*; $12,000

CORCOS, GILLES M; *THE INTERACTION BETWEEN MANTLE CONVECTION AND LITHOSPHERIC PLATES (MEA-8012678)*; 12 MONTHS $31,010

MOTE, CLAYTON D; *PROBLEMS ON CONTROL OF VIBRATIONS IN SAWS (MEA-8016721*)*; 24 MONTHS $109,999

MOTE, CLAYTON D; *IDLING NOISE IN CIRCULAR SAWS (MEA-8017417*)*; 24 MONTHS $100,00[illegible]

TOMIZUKA, MASAYOSHI, AND AUSLANDER, DAVID M; *DIGITAL CONTROL ALGORITHMS FOR MULTI-INPUT, MULTI-OUTPUT INDUSTRIAL PROCESSES (MEA-8017839)*; 24 MONTHS $105,000

BOGY, DAVID B; *PIEZOELECTRIC TRANSDUCERS STUDIES FOR NON-UNIFORM SURFACE MOTION: THEORY AND EXPERIMENT (MEA-8017840)*; 24 MONTHS $140,698

HSU, CHIEH S; *METHODS OF GLOBAL ANALYSIS FOR NONLINEAR DYNAMICAL SYSTEMS (MEA-8019274)*; 12 MONTHS $53,000

CARROLL, MICHAEL M; *FORMULATION OF CONTINUUM THEORIES FOR POROUS MATERIALS (MEA-8020216)*; 24 MONTHS $70,659

DORNFELD, DAVID; *DEVELOPMENT OF A COMPREHENSIVE CONTROL STRATEGY FOR GAS METAL ARC WELDING (MEA-8102889)*; 12 MONTHS $51,159

RUBINSKY, BORIS; *RESEARCH INITIATION: A FINITE ELEMENT ANALYSIS OF HEAT AND MASS TRANSFER PROCESSES DURING SOLIDIFICATION OF SOLUTIONS (MEA-8105916)*; 24 MONTHS $48,000

GREIF, RALPH; *HEAT TRANSFER AND FLUID FLOW IN NATURAL CIRCULATION LOOPS (MEA-8107202*)*; 12 MONTHS $19,822

DORNFELD, DAVID, AND KOBAYASHI, SHIRO; *INVESTIGATION OF METAL CUTTING AND FORMING PROCESS FUNDAMENTALS AND CONTROL USING ACOUSTIC EMISSION (MEA-8112843)*; 12 MONTHS $218,198

UNIVERSITY OF CALIFORNIA, IRVINE

ELGHOBASHI, S E; *CONVECTIVE HEAT TRANSFER NEAR THE REATTACHMENT POINT OF A TURBULENT FLOW DOWNSTREAM OF A SUDDEN EXPANSION IN A SMOOTH CIRCULAR PIPE (MEA-8018407)*; 24 MONTHS $74,957

UNIVERSITY OF CALIFORNIA, LOS ANGELES

DUBOWSKY, STEVEN; *THEORETICAL AND EXPERIMENTAL STUDY OF THE DYNAMIC MODELLING OF HIGH SPEED MACHINE SYSTEMS (MEA-8008926 A01)*; 12 MONTHS $59,972

SHABAIK, ALY H; *OPTIMIZATION OF STEEL FORGEABILITY IN THE PRESENCE OF INCLUSIONS (MEA-8111785)*; 12 MONTHS $74,235

UNIVERSITY OF CALIFORNIA, SAN DIEGO

LIBBY, PAUL A; *STUDIES OF FREE SHEAR TURBULENCE INVOLVING MEASUREMENTS OF PASSIVE SCALARS AND PRESSURE FLUCTUATIONS (MEA-7815718 A03*)*; 12 MONTHS $35,500

FUNG, Y C; *CARDIO-PULMONARY DYNAMICS (MEA-7910560)*; 12 MONTHS $80,560

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

YUEN, WALTER W; *A MODEL OF RADIATIVE HEAT TRANSFER AND SOOT FORMATION IN LAMINAR-JET FLAMES (MEA-8025824)*; 17 MONTHS $15,000

MARKENSCOFF, XANTHIPPI; *DISLOCATION DYNAMICS: THE EQUATION OF MOTION OF A DISLOCATION, ELASTIC PRECURSOR DECAY, RELATED PROBLEMS (MEA-8103206)*; 24 MONTHS $72,556

UNIVERSITY OF SOUTHERN CALIFORNIA

CHENG, HSIEN K, AND MAXWORTHY, TONY; *THEORETICAL AND EXPERIMENTAL STUDIES OF FLOW STRUCTURE AND INERTIAL-WAVE PATTERNS IN A DEEP ROTATING CONTAINER (MEA-7822075 A03)*; 12 MONTHS $49,615

CHENG, HSIEN K, AND MAXWORTHY, TONY; *FLUID DYNAMICS OF ANIMAL SWIMMING AND HOVERING (MEA-7926003)*; 12 MONTHS $99,890

MODEST, MICHAEL F; *HIGH TEMPERATURE HEAT TRANSFER IN CHEMICALLY REACTING GASPARTICULATE SUSPENSIONS (MEA-8019387)*; 12 MONTHS $44,692

COLORADO

COLORADO STATE UNIVERSITY

LOEHRKE, RICHARD I; *HEAT TRANSFER FROM INTERRUPTED PLATE SURFACES (MEA-8009046)*; 24 MONTHS $123,717

NATIONAL BUREAU OF STANDARDS-NATIONAL BUREAU OF STANDARDS-BOULDER

REED, RICHARD P, AND SMITH, JOHN H; *THE ECONOMIC ASPECTS OF FRACTURE IN THE U.S. ECONOMY (DMR-8021179 A01*)*; 12 MONTHS $10,000

UNIVERSITY OF COLORADO AT BOULDER

KASSOY, DAVID R, AND GARY, JOHN M; *HEAT AND MASS TRANSFER AT HIGH RAYLEIGH NUMBER IN A WATER SATURATED POROUS MEDIUM (MEA-8011730)*; 12 MONTHS $45,655

CONNECTICUT

YALE UNIVERSITY

PHILLIPS, ARIS; *MECHANICS OF PERMANENT DEFORMATIONS OF MATERIALS (MEA-7822071 A02)*; 12 MONTHS $73,094

DISTRICT OF COLUMBIA

AMERICAN ASSOCIATION FOR ADVANCEMENT SCIENCE

REDDEN, MARTHA R; *PLANNING WORKSHOPS AND BULLETINS FOR SCIENCE AND TECHNOLOGY FOR THE HANDICAPPED (ECS-7920290 A02*)*; 12 MONTHS $26,273

CATHOLIC UNIVERSITY OF AMERICA

MCCOY, JOHN J; *FIELD FLUCTUATIONS IN DIELECTRIC AND LINEARLY ELASTIC RANDOM MEDIA WITH EMPHASIS ON COMPOSITE MATERIAL MECHANICS (MEA-8024094)*; 24 MONTHS $104,244

FOREST SERVICE

WHALEY, ROSS S; *FUTURE FORECASTING METHODS (OIR-8111490)*; 24 MONTHS $43,550

HOWARD UNIVERSITY

ERONINI, IHEANYI E; *RESEARCH INITIATION: MODELING AND IDENTIFICATION OF ROTARY BIT-ROCK SYSTEMS (MEA-8106443)*; 24 MONTHS $47,968

NATIONAL ACADEMY OF SCIENCES

POLLACK, KERSTIN B; *A STUDY OF EDUCATION AND UTILIZATION OF ENGINEER 1980-2000: STATUS, NEEDS, AND OPPORTUNITIES, PHASE I (OSG-8107881*)*; 6 MONTHS $9,000

FLORIDA

UNIVERSITY OF FLORIDA-ENGINEERING & INDUSTRIAL EXPERIMENT STATION

SANDOR, GEORGE N; *RESEARCH IN KINEMATIC AND KINETO-ELASTODYNAMIC ANALYSIS AND SYNTHESIS OF HIGHER PAIR MECHANISMS (MEA-8025812)*; 12 MONTHS $50,000

UNIVERSITY OF FLORIDA

MATTHEW, GARY K; *A WORKSHOP ON MACHINES, MECHANISMS AND ROBOTICS (MEA-8026494)*; 6 MONTHS $11,000

UNIVERSITY OF SOUTH FLORIDA

KRAUS, ALLAN D; *COMPACT HEAT EXCHANGER SURFACES FOR AIR COOLED POWER PLANT CONDENSERS (MEA-8011598)*; 24 MONTHS $86,874

GEORGIA

GEORGIA INSTITUTE OF TECHNOLGY MAIN CAMPUS

BERRY, JOHN T; *A COMPUTER-AIDED DESIGN SYSTEM FOR CASTINGS (MEA-7824301 A02)*; 12 MONTHS $121,089

GIDDENS, DON P; *ROLE OF FLUID MECHANICS IN THE GENESIS, PROLIFERATION AND DETECTION OF ATHEROSCLEROSIS (MEA-7921551 A01)*; 12 MONTHS $115,838

STRAHLE, WARREN C; *PRESSURE VELOCITY CORRELATION IN REACTING TURBULENT FLOWS (MEA-8022366)*; 12 MONTHS $67,244

GINSBERG, JERRY H; *MULTI-DIMENSIONAL AND INTERACTIVE PHENOMENA IN THE DYNAMIC RESPONSE OF NONLINEAR ACOUSTICAL SYSTEMS (MEA-8026496)*; 12 MONTHS $22,997

GINSBERG, JERRY H; *PROPAGATION OF FINITE AMPLITUDE SOUND BEAMS, WITH APPLICATION TO PARAMETRIC ACOUSTIC ARRAYS (MEA-8101106)*; 12 MONTHS $45,009

KOFFMAN, LARRY D; *RESEARCH INITIATION: ANALYSIS OF MICRO-LAYER EVAPORATION IN SUBCOOLED NUCLEATE BOILING (MEA-8105526)*; 24 MONTHS $47,049

HAWAII

UNIVERSITY OF HAWAII-MANOA

CHENG, PING; *FUNDAMENTAL STUDIES OF HEAT AND MASS TRANSFER IN POROUS MEDIA (MEA-8100437)*; 5 MONTHS $15,000

ILLINOIS

AMERICAN FOUNDRYMEN'S SOCIETY

SINNETT, ASHLEY B; *INTERNATIONAL FOUNDRY CONGRESS 1982 (MEA-8105284*)*; 30 MONTHS $108,000

BRADLEY UNIVERSITY

MEHTA, D PAUL; *RESEARCH INITIATION: EFFECTS OF CONTROL DYNAMICS ON ENERGY CONSUMPTION IN BUILDING ENVIRONMENTAL CONTROL SYSTEMS (MEA-8106950)*; 24 MONTHS $46,573

ILLINOIS INSTITUTE OF TECHNOLOGY

SCIAMMARELLA, CESAR A; *FURTHER DEVELOPMENTS OF OPTICAL TECHNIQUES APPLIED TO EXPERIMENTAL MECHANICS (MEA-8019288)*; 12 MONTHS $71,691

MORKOVIN, MARK V; *EXPERIMENTS ON RECEPTIVITY OF LAMINAR BOUNDARY LAYERS TO ACOUSTIC EXCITATION (MEA-8021943)*; 24 MONTHS $90,308

KUMAR, SUDHIR; *BASIC INVESTIGATIONS OF METALLIC TRACTIVE ROLLING CONTACT (MEA-8109719)*; 12 MONTHS $53,557

NORTHWESTERN UNIVERSITY

LAW, CHUNG K; *IGNITION AND COMBUSTION OF FUEL SPRAY JETS (MEA-7820013 A02)*; 12 MONTHS $37,000

DAVIS, STEPHEN H; *INTERFACIAL DYNAMICS (MEA-7921178 A01)*; 12 MONTHS $61,390

GROTBERG, JAMES B; *RESEARCH INITIATION: FLOW THROUGH FLEXIBLE TUBES (MEA-8105822)*; 24 MONTHS $47,956

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

GANIC, EJUP N; *HEAT TRANSFER AND DROPLET DEPOSITION IN TWO-COMPONENT DISPERSED FLOW (MEA-8005681)*; 24 MONTHS $72,755

UNIVERSITY OF ILLINOIS AT URBANA

CHEN, MICHAEL M; *INFLUENCE OF MICROCONVECTION ON HEAT AND MASS TRANSFER IN NON-DILUTE DISPERSE TWO-PHASE FLOWS (MEA-7815692 A02)*; 12 MONTHS $43,883

WESTWATER, JAMES W; *THE QUENCHING METHOD FOR DETERMINING BOILING MEASUREMENTS (MEA-7819004 A03)*; 12 MONTHS $45,000

LECKIE, F A, AND SOCIE, DARRELL F; *CONTINUUM DAMAGE MECHANICS, FRACTURE MECHANICS, AND CONSTITUTIVE EQUATIONS AT ELEVATED TEMERATURES (MEA-7813549 A02)*; 12 MONTHS $72,592

BERGMAN, L A; *THE RELIABILITY OF LINEAR AND NON-LINEAR OSCILLATORS AND SYSTEMS OF COUPLED OSCILLATORS (MEA-8023163)*; 12 MONTHS $45,561

HARRIS, JOHN G; *STUDIES IN ELASTODYNAMIC COMPLEX-RAY THEORY (MEA-8104738)*; 24 MONTHS $60,721

HABER, ROBERT B; *RESEARCH INITIATION: NONLINEAR CONTACT-SLIP ANALYSIS USING MIXED EULERIAN-LAGRANGIAN DISPLACEMENTS (MEA-8105531)*; 24 MONTHS $48,000

HALE, ARTHUR L; *RESEARCH INITIATION: NONLINEAR STATIC AND DYNAMIC SYNTHESIS OF COMPLEX STRUCTURES (MEA-8105535)*; 24 MONTHS $48,000

NEWELL, TY A; *RESEARCH INITIATION: THE DEVELOPMENT OF AN INDOOR SOLAR POND SIMULATION SYSTEM AND AN INVESTIGATION OF SALT TRANSPORT IN RADIANTLY HEATED WATER (MEA-8105942)*; 24 MONTHS $48,000

TUCKER, CHARLES L; *COMPOSITE MATERIALS PROCESSING (MEA-8112037*)*; 36 MONTHS $167,254

CHANGNON, STANLEY A; *PREPARATION OF A COMPREHENSIVE PLAN OF RESEARCH ON FLOODS AND THEIR MITIGATION (OIR-8117027*)*; 12 MONTHS $86,571

INDIANA

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS

BODONYI, RICHARD J; *NONLINEAR CRITICAL LAYERS IN BOUNDARY-LAYER FLOW STABILITY (MEA-8107078)*; 24 MONTHS $42,680

PURDUE UNIVERSITY

INCROPERA, FRANK P; *HYDRODYNAMIC AND THERMAL CONDITIONS IN IRRADIATED LIQUID SUSPENSIONS (MEA-8009034)*; 12 MONTHS $66,116

VISKANTA, RAYMOND; *BUOYANCY EFFECTS ON HEAT TRANSFER DURING MELTING & SOLIDIFICATION (MEA-8014061)*; 12 MONTHS $49,550

LYKOUDIS, PAUL S; *RESEARCH AND TWO-PHASE LIQUID METAL EXPERIMENTAL STUDIES IN THE PRESENCE OF A MAGNETIC FIELD (MEA-8018960*)*; 12 MONTHS $53,497

LIU, C R, AND BARASH, MOSHE M; *THE STUDY OF THE MECHANISMS AND THE CONSTRUCTION OF MODELS OF RESIDUAL STRESS FORMATION IN MACHINING STEELS (MEA-8021049)*; 12 MONTHS $56,457

UNIVERSITY OF NOTRE DAME

LLOYD, JOHN R, AND YANG, K.-T.; *RADIATION CONVECTION INTERACTION IN HEAT TRANSFER (MEA-7918682 A01)*; 12 MONTHS $83,722

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

BURGER, CHRISTIAN P, AND VOLOSHIN, ARKADY; *HALF FRINGE PHOTOELASTICITY: A NEW METHOD OF EXPERIMENTAL STRESS ANALYSIS AND ITS APPLICATION TO STRESS FIELDS FOR NEAR BOUNDARY CRACKS (MEA-8014066)*; 24 MONTHS $108,341

UNIVERSITY OF IOWA

SAVAGE, WILLIAM R; *ACOUSTICS COLLOQUIUM AND RESEARCH WORKSHOP; IOWA CITY, IOWA; MAY 7-9, 1981 (PHY-8108953*)*; 12 MONTHS $1,000

KENTUCKY

UNIVERSITY OF KENTUCKY

CREMERS, CLIFFORD J; *HEAT TRANSFER IN ARC-WELDING (MEA-8005676)*; 24 MONTHS $142,818

BEATTY, MILLARD F; *NONLINEAR ELASTICITY AND STABILITY OF REINFORCED MATERIALS (MEA-8011725)*; 12 MONTHS $53,841

TONG, TIMOTHY W; *RESEARCH INITIATION: RADIATIVE CHARACTERISTICS AND THE COMBINED EFFECT OF THERMAL RADIATION, CONDUCTION AND NATURAL CONVECTION IN FIBROUS INSULATIONS (MEA-8105951)*; 24 MONTHS $48,000

LOUISIANA

TULANE UNIVERSITY

COWIN, STEPHEN C; *AN ANALYTICAL AND EXPERIMENTAL STUDY OF LONG TERM BONE REMODELING (MEA-7827252 A02)*; 12 MONTHS $68,191

MARYLAND

CAPITAL SYSTEMS GROUP INC

CLANSKY, KENNETH B; *SUPPORT SERVICES FOR NSF RESEARCH INFORMATION PROCESSING AND DISSEMINATION PROGRAMS (ISM-8020049 A01*)*; 4 MONTHS $40,448

JOHNS HOPKINS UNIVERSITY

ERICKSEN, J L; *RESEARCH ON NONLINEAR THEORIES OF SOLIDS (MEA-7911118 A01)*; 12 MONTHS $63,306

TRUESDELL, CLIFFORD A; *RATIONAL THERMOMECHANICS OF MATERIALS (MCS-8015791*)*; 12 MONTHS $37,730

MARTIN MARIETTA CORPORATION-MARTIN MARIETTA LABORATORY

TRAUGOTT, STEPHEN C; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH: DYNAMICS OF BUBBLES BENEATH DOWNWARD-FACING SURFACES (MEA-7926007*)*; 24 MONTHS $26,893

UNIVERSITY OF MARYLAND, COLLEGE PARK

WALLACE, JAMES M; *AN INVESTIGATION OF BOUNDED TURBULENT SHEAR FLOWS INCORPORATING THEIR VORTICITY STRUCTURE (MEA-7919835 A01)*; 12 MONTHS $61,016

SHIH, TEIN-MO; *SECOND NATIONAL CONFERENCE ON NUMERICAL METHODS IN HEAT TRANSFER, COLLEGE PARK, MD, SEPTEMBER 21 - 23, 1981 (MEA-8011603)*; 12 MONTHS $8,120

SENGERS, JAN V; *THE EIGHTH SYMPOSIUM ON THERMOPHYSICAL PROPERTIES, JUNE 15 18, 1981, GAITHERSBURG, MARYLAND (MEA-8022507*)*; 12 MONTHS $2,500

MASSACHUSETTS

HARVARD UNIVERSITY

HUTCHINSON, JOHN W, AND BUDIANSKY, BERNARD; *STUDIES IN FRACTURE AND MATERIALS MECHANICS (MEA-7810756 A01)*; 24 MONTHS $100,234

ABERNATHY, FREDERICK H; *INVESTIGATION OF MIXING MECHANISMS IN TURBULENT BOUNDARY LAYERS USING DRAG REDUCING LIQUIDS (MEA-7905960 A02)*; 12 MONTHS $80,000

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

NEWMAN, J N; *STUDIES OF SHIP HYDRODYNAMICS AND WATER WAVES (MEA-7717817 A03)*; 12 MONTHS $159,917

KAMM, ROGER D, AND SHAPIRO, ASCHER H; *A BROAD PROGRAM OF RESEARCH ON FLEXIBLE WALLED TUBES (MEA-7913092 A01)*; 12 MONTHS $100,000

UNIVERSITY OF MASSACHUSETTS, AMHERST

WILSON, WILLIAM R; *LUBRICATION IN STEEL COLD ROLLING (MEA-8017855)*; 12 MONTHS $78,937

BOOTHROYD, GEOFFREY; *ECONOMIC APPLICATIONS OF ASSEMBLY ROBOTS (MEA-8111917)*; 24 MONTHS $157,000

BOOTHROYD, GEOFFREY; *WORKSHOP ON ASSEMBLY AND INSPECTION (MEA-8115036)*; 6 MONTHS $5,525

MICHIGAN

MICHIGAN STATE UNIVERSITY

THOME, JOHN R; *BOILING INCIPIENT SUPERHEATS AND DYNAMIC CONTACT ANGLES IN A BINARY MIXTURE SYSTEM (MEA-8008097)*; 24 MONTHS $90,864

ABEYARATNE, ROHAN C; *RESEARCH INITIATION: LOCALIZATION OF DEFORMATION FROM INHOMOGENOUS PRE-LOCALIZATION FIELDS (MEA-8106581)*; 24 MONTHS $47,975

UNIVERSITY OF MICHIGAN-ANN ARBOR

PEHLKE, ROBERT D; *A COMPUTER AIDED DESIGN SYSTEM FOR CASTINGS (MEA-7826171 A02)*; 12 MONTHS $131,158

WILLMARTH, WILLIAM W; *RESEARCH ON THE SMALL SCALE STRUCTURE OF TURBULENCE AND DRAG REDUCTION (MEA-8012115)*; 24 MONTHS $97,072

YANG, WEN-JEI; *PERFORMANCE OF ROTATING ANNULAR DISK SURFACES FOR MARINE CONDENSERS (MEA-8013031)*; 24 MONTHS $81,645

COMNINOU, MARIA; *INTERACTION OF ELASTIC WAVES WITH A UNILATERAL INTERFACE (MEA-8019281)*; 24 MONTHS $94,828

ANDERSON, WILLIAM J; *INVERSE PERTURBATION IN FINITE ELEMENT DYNAMIC ANALYSIS (MEA-8019642)*; 12 MONTHS $76,769

ULSOY, A GALIP; *VARIABLE-GAIN ADAPTIVE CONTROL SYSTEMS FOR MACHINE TOOLS (MEA-8112629)*; 24 MONTHS $164,678

WILSON, RICHARD C; *WORKSHOP ON MODELLING AND SIMULATION OF MANUFACTURING SYSTEMS (MEA-8115211)*; 2 MONTHS $10,017

PEHLKE, ROBERT D; *THE STUDY OF EMERGING COMPUTER-AIDED DESIGN (CAD) RELATED TECHNOLOGIES IN THE METAL CASTING INDUSTRIES (MEA-8116694)*; 12 MONTHS $176,913

WILSON, RICHARD C; *NINTH PRODUCTION RESEARCH CONFERENCE (MEA-8119727)*; 6 MONTHS $12,455

WAYNE STATE UNIVERSITY

THOMPSON, B S, AND AKAY, ADNAN; *AN INVESTIGATION OF THE VIBRATORY AND ACOUSTICAL CHARACTERISTICS OF FLEXIBLE MECHANICAL SYSTEMS ON VIBRATING FOUNDATIONS (MEA-7921242 A01)*; 12 MONTHS $54,489

MINNESOTA

UNIVERSITY OF MINNESOTA

GOLDSTEIN, RICHARD J; *HEAT TRANSFER BY THERMAL CONVECTION (MEA-7721626 A03)*; 12 MONTHS $52,956

SERRIN, JAMES B; *PHENOMENOLOGICAL THERMODYNAMICS (MCS-7903535 A02*)*; 12 MONTHS $13,034

SETHNA, P R; *STUDY OF NONLINEAR DYNAMICAL SYSTEMS (MEA-7921351 A01)*; 12 MONTHS $52,795

PATANKAR, S V; *NUMERICAL SOLUTION OF COMPLEX HEAT TRANSFER AND FLUID FLOW PROBLEMS (MEA-8007476)*; 12 MONTHS $55,274

SPARROW, E M; *EXPERIMENTS ON THE TRANSFER CHARACTERISTICS OF COMPLEX HEAT TRANSFER CONFIGURATIONS (MEA-8009035)*; 24 MONTHS $125,770

SIMON, TERRENCE W; *RESEARCH INITIATION: HEAT TRANSFER FROM A SMALL, HIGH-HEAT-FLUX PATCH TO SUBCOOLED TURBULENT FLOW (MEA-8105818)*; 24 MONTHS $48,000

UNIVERSITY OF MINNESOTA AT SAINT PAUL

AIFANTIS, ELIAS C; *CONTINUUM THEORY OF MATERIAL DAMAGE (DEGRADATION) (MEA-8117855)*; 14 MONTHS $42,949

MISSOURI

WASHINGTON UNIVERSITY

ZAHALAK, GEORGE I; *THE MECHANICAL BEHAVIOR OF HUMAN SKELETAL MUSCLE IN VIVO (MEA-7920332 A01)*; 12 MONTHS $43,279

MONTANA

MONTANA STATE UNIVERSITY

DEMETRIADES, ANTHONY; *SPECIALIZED RESEARCH EQUIPMENT FOR SUPERSONIC WIND-TUNNEL LABORATORY (MEA-8011592)*; 12 MONTHS $35,000

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

SCHADE, GEORGE R; *A PROBABILISTIC MODEL OF MECHANISM COUPLER POINT MOTION (MEA-8026806)*; 12 MONTHS $29,715

LU, PAU-CHANG; *NUMERICAL SIMULATION OF TWO-PHASE TEMPERATURE EVOLUTION IN A POROUS SLAB/SHELL WITH FLOW-DEPENDENT HEAT-TRANSFER COEFFICIENTS (MEA-8100443)*; 12 MONTHS $22,786

NEW JERSEY

PRINCETON UNIVERSITY

CHENG, SIN-I; *COMPUTATIONAL STUDY OF SHEAR TURBULENCE (MEA-8010876)*; 12 MONTHS $30,000

CAUDILL, REGGIE J, AND KORNHAUSER, ALAIN L; *REALIZATION AND MICROPROCESSOR IMPLEMENTATION OF CONTROL LAWS FOR AUTOMATED VEHICLE SYSTEMS (MEA-8019290)*; 12 MONTHS $64,938

RUTGERS UNIVERSITY-BUSCH CAMPUS

LEE, TING W; *DESIGN OF HIGH-SPEED MECHANISMS (MEA-8006783 A01)*; 12 MONTHS $35,777

WENG, GEORGE J; *MICROMECHANICS OF METAL PLASTICITY AT ARBITRARY STRAIN (MEA-8019546)*; 24 MONTHS $58,198

RUTGERS UNIVERSITY-COOK COLLEGE

HAYAKAWA, KAN-ICHI; *PARAMETRIC ANALYSIS OF HEAT CONDUCTION IN FOOD UNDERGOING FREEZING OR DEFROSTING (MEA-8011599)*; 24 MONTHS $79,994

RUTGERS UNIVERSITY

MULLER, MICHAEL R, AND PESKIN, RICHARD L; *AN EXPERIMENTAL INVESTIGATION OF THE DYNAMICS OF A BUOYANT THERMAL IN A ROTATING SOURCE-SINK ANNULUS (MEA-8016310)*; 12 MONTHS $59,109

STEVENS INSTITUTE OF TECHNOLOGY

TRICAMO, STEPHEN J; *RESEARCH INITIATION: SIMULTANEOUS OPTIMIZATION OF KINEMATIC AND DYNAMIC CHARACTERISTICS IN THE DESIGN OF MECHANISMS (MEA-8106437)*; 24 MONTHS $48,000

NEW YORK

CITY COLLEGE

JIJI, LATIF M; *TURBULENT JET-BOUNDARY INTERACTION FOR SLOTS AND RECTANGULAR HEATED DISCHARGES (MEA-7810004 A02)*; 12 MONTHS $26,357

JIJI, LATIF M, AND WEINBAUM, SHELDON S; *AN AIR-VAPOR-DROPLET LOCAL INTERACTIONS MODEL FOR SPRAY UNITS AND SPRAY SYSTEMS (CPE-7820709 A02*)*; 12 MONTHS $10,000

WEINBAUM, SHELDON S, PFEFFER, ROBERT, AND GANATOS, PETER; *TRANSPORT OF MACROMOLECULES ACROSS ARTERIAL WALL AND LOW REYNOLDS NUMBER FLOW IN MULTIPARTICLE SYSTEMS (CPE-7822101 A02*)*; 12 MONTHS $30,820

GANATOS, PETER; *RESEARCH INITIATION: DEVELOPMENT OF A STRONG INTERACTION THEORY FOR THREE-DIMENSIONAL LOW REYNOLDS NUMBER FLOWS INVOLVING AN ELLIPSOIDAL PARTICLE (MEA-8105914)*; 24 MONTHS $48,000

COLUMBIA UNIVERSITY

FREUDENSTEIN, FERDINAND; *DETERMINATION AND MINIMIZATION OF FORCES IN STATICALLY INDETERMINATE HIGH-SPEED LINKAGES (MEA-7822477 A02)*; 12 MONTHS $35,117

VAICAITIS, RIMAS; *NOISE TRANSMISSION INTO FINITE ENCLOSURES (MEA-8018399)*; 24 MONTHS $99,709

BUCKHOLZ, RICHARD H; *RESEARCH INITIATION: HYDRODYNAMIC LUBRICATION WITH COMPLIANT SURFACE BEARINGS (MEA-8106447)*; 24 MONTHS $47,961

CORNELL UNIVERSITY

WANG, K K; *COMPUTER-AIDED INJECTION MOLDING SYSTEM (MEA-7818868 A02)*; 12 MONTHS $179,321

WANG, K K; *COMPUTER-AIDED INJECTION MOLDING SYSTEM (MEA-7818868 A03)*; 12 MONTHS $34,000

LEIBOVICH, SIDNEY; *NONLINEAR STABILITY THEORY AND THE LARGE AMPLITUDE TRANSITIONS OF CONCENTRATED VORTEX FLOWS (MEA-7919817 A01)*; 12 MONTHS $95,000

JIRKA, GERHARD H, AND CAUGHEY, DAVID A; *TWO-DIMENSIONAL TRANSCRITICAL STRATIFIED FLOW (MEA-8012682)*; 12 MONTHS $75,520

WEAVER, RICHARD L; *MULTIPLE SCATTERING OF WAVES IN RANDOM MEDIA (MEA-8016707)*; 24 MONTHS $85,583

HOLMES, PHILIP J; *QUALITATIVE ANALYSIS OF DYNAMICAL PROBLEMS IN NONLINEAR MECHANICS (MEA-8017570*)*; 12 MONTHS $25,595

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

HART, EDWARD W; *TESTING OF METALS UNDER MULTIAXIAL LOADING (MEA-7823544 A02)*; 12 MONTHS $64,834

NELKIN, MARK S; *STATISTICAL PHYSICS OF TURBULENCE (MEA-7990294 A01)*; 12 MONTHS $35,740

DAWSON, PAUL R; *STRAIN-DEPENDENT VISCOPLASTIC PRIMARY FORMING MODELS (MEA-8105605*)*; 12 MONTHS $43,587

RENSSELAER POLYTECHNIC INSTITUTE

WAYNER, PETER C; *EXPERIMENTAL STUDY OF EVAPORATIVE HEAT TRANSFER IN THE INTERLINE REGION AND ADJACENT MENISCUS (MEA-7828039 A02)*; 12 MONTHS $40,000

KREMPL, ERHARD; *INELASTIC CONSTITUTIVE EQUATIONS WITH MEASURES OF INTERNAL CHANGE (MEA-7909156 A01)*; 12 MONTHS $123,180

MOW, VAN C, AND LAI, W MICHAEL; *BIOMECHANICS OF DIARTHRODIAL JOINTS (MEA-7919524 A01)*; 12 MONTHS $115,415

TICHY, JOHN A; *HEAT TRANSFER AND PRESSURE DROP IN CONDENSING AND EVAPORATING MULTICOMPONENT FLUIDS (MEA-8005706)*; 12 MONTHS $55,320

NAGAMATSU, HENRY T, AND DUFFY, ROBERT E; *INVESTIGATION OF THE EFFECTS OF PRESSURE GRADIENT, TEMPERATURE, AND WALL TEMPERATURE RATIO ON THE HEAT TRANSFER OVER BLUNT AND STREAMLINED BODIES (ISA-8006806 A01)*; 12 MONTHS $55,278

GAY, RODNEY R, AND LAHEY, RICHARD T; *THREE-DIMENSIONAL TURBULENCE STRUCTURE MEASUREMENTS IN TWO-PHASE FLOW (MEA-8012953)*; 8 MONTHS $52,400

TICHY, JOHN A; *AN IMPROVEMENT TO LUBRICATION THEORY FOR HIGH SPEED ROTATING MACHINERY, DUE TO FLUID INERTIA AND VISCOELASTICITY (MEA-8018088)*; 36 MONTHS $134,995

SMITH, RICHARD N; *MULTI-DIMENSIONAL CONDUCTION HEAT TRANSFER WITH CHANGE OF PHASE ADJACENT TO EXTENDED SURFACES (MEA-8018413)*; 24 MONTHS $90,000

STATE UNIVERSITY AT BUFFALO

INMAN, DANIEL J, AND SAGGIO, FRANK; *ANALYTICAL STUDY OF GYROSCOPIC SYSTEMS WITH APPLICATION TO SLIGHTLY DAMPED AND ELASTICALLY SUPPORTED DYNAMICALLY TUNED GYROS (MEA-8113826)*; 24 MONTHS $63,406

STATE UNIVERSITY AT STONY BROOK

O'BRIEN, EDWARD E; *CHEMICALLY REACTIVE TURBULENT SHEAR FLOWS (MEA-8007255)*; 24 MONTHS $83,252

CHIANG, FU-PEN; *SPECKLE AND MOIRE METHODS FOR EXPERIMENTAL STRESS ANALYSIS (MEA-8009047 A01)*; 12 MONTHS $80,614

CHEVRAY, RENE; *ENTRAINMENT AND CHEMICAL REACTION IN A MIXING LAYER (MEA-8012961)*; 24 MONTHS $88,908

UNIVERSITY OF ROCHESTER

VOELCKER, HERBERT B; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: PADL 2 PROJECT (MEA-7825359 A01*)*; 12 MONTHS $60,576

FRIEDLY, JOHN C; *FLOW OSCILLATIONS IN CRYOGENIC EVAPORATORS (MEA-8007307)*; 24 MONTHS $114,554

NORTH CAROLINA

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

HAVNER, KERRY S; *FINITE DEFORMATION OF CRYSTALLINE SOLIDS (MEA-7808154 A02)*; 12 MONTHS $40,410

OHIO

BATTELLE MEMORIAL INSTITUTE

ALTAN, TAYLAN; *COMPUTER AIDED METHODS FOR WARM FORGING OF STEEL PARTS (MEA-8112622)*; 12 MONTHS $92,000

CASE WESTERN RESERVE UNIVERSITY

DYBBS, ALEXANDER; *VELOCITY MEASUREMENTS IN POROUS MEDIA (MEA-7913389 A01)*; 12 MONTHS $88,870

OHIO STATE UNIVERSITY

TOUGH, JAMES T; *SUPERFLUID TURBULENCE (DMR-7925089 A01*)*; 12 MONTHS $10,000

STAAB, GEORGE H; *RESEARCH INITIATION: FINITE ELEMENTS ANALYSIS OF BI-MATERIAL FRACTURE MECHANICS (MEA-8105595)*; 24 MONTHS $48,000

SRINIVASAN, K; *MICROCOMPUTER CONTROL OF MACHINE TOOL FEED DRIVES (MEA-8105592)*; 12 MONTHS $41,032

DEAN, RICK H; *RESEARCH INITIATION: STABLE CRACK GROWTH IN DUCTILE STEELS (MEA-8105817)*; 24 MONTHS $47,062

UNIVERSITY OF CINCINNATI

NAYFEH, ADNAN H; *CHARACTERIZATION OF INTERFACIAL PROCESSES IN GEOPHYSICAL/ GEOTHERMAL COMPOSITES (MEA-8081054)*; 24 MONTHS $71,725

HUSTON, RONALD L; *MULTIBODY DYNAMICS INCLUDING THE EFFECTS OF FLEXIBILITY AND COMPLIANCE (MEA-8101110*)*; 12 MONTHS $47,787

UNIVERSITY OF DAYTON

SCHAUER, JOHN J; *THE CIRCULAR TANGENTIAL WALL JET (MEA-8012951)*; 20 MONTHS $66,179

JAIN, VINOD K; *RESEARCH INITIATION: MECHANISM OF WEAR PARTICLE FORMATION IN FIBER REINFORCED POLYMERIC COMPOSITES (MEA-8106583)*; 24 MONTHS $48,000

OKLAHOMA

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

GOLLAHALLI, S R; *PURCHASE OF HIGH SPEED MOTION PICTURE PHOTOGRAPHY SYSTEM (MEA-8104787)*; 12 MONTHS $15,000

OREGON

OREGON STATE UNIVERSITY

WILSON, JAMES B, AND NARASIMHAN, MYSORE N; *A THEORY TO PREDICT FRACTURE BEHAVIOR OF PARTICULATE COMPOSITES (MEA-8016710)*; 24 MONTHS $125,760

ADAMS, RONALD L; *THE RADIATIVE CONTRIBUTION TO HEAT TRANSFER BETWEEN A HIGH TEMPERATURE FLUIDIZED BED AND AN IMMERSED TUBE (MEA-8020781)*; 12 MONTHS $53,874

UNIVERSITY OF OREGON - EUGENE

DONNELLY, RUSSELL J; *EXPERIMENTAL AND THEORETICAL RESEARCH IN FLUID MECHANICS (MEA-7818405 A02)*; 12 MONTHS $53,943

DONNELLY, RUSSELL J; *HEAT TRANSFER PROPERTIES OF CONVECTING AND ROTATING LIQUID CRYOGENS (MEA-8007478)*; 24 MONTHS $86,135

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

WRIGHT, PAUL K, RICHMOND, OWEN, AND DEVENPECK, MARSHALL L; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH PROGRAM: BOUNDARY CONDITIONS IN LARGE-STRAIN STEADY-STATE PLASTIC DEFORMATION PROCESSES (MEA-8011589*)*; 24 MONTHS $78,875

DREXEL UNIVERSITY

TSOU, FU KANG; *EXPERIMENTAL STUDIES OF UNSTEADY FILM COOLING (MEA-7727946 A05)*; 12 MONTHS $9,100

HAVERFORD COLLEGE

GOLLUB, JERRY P; *STOCHASTIC FLOW AND NONLINEAR DYNAMICS (MEA-7918150 A01)*; 12 MONTHS $61,390

LEHIGH UNIVERSITY

ERDOGAN, FAZIL; *FRACTURE PROBLEMS IN PRESSURE VESSELS AND PIPES (MEA-7809737 A01)*; 24 MONTHS $125,115

ROCKWELL, DONALD O; *IMPINGEMENT OF VORTICAL STRUCTURES ON EDGE-TYPE OBSTACLES (MEA-7912163 A01)*; 12 MONTHS $46,960

LEVY, EDWARD K, AND KADAMBI, VEDANTH; *HEAT TRANSFER IN ROTATING AND CURVED DUCTS (MEA-7923751 A01*)*; 12 MONTHS $22,358

SALATHE, ERIC P; *MICROCIRCULATORY FLOW: A STUDY OF FLUID MOVEMENT IN COMPLEX POROUS STRUCTURES (MEA-8006783)*; 12 MONTHS $46,585

WALKER, J D, AND SMITH, CHARLES R; *INDUSTRY/UNIVERSITY COOPERATIVE GRANT: SEPARATED FLOW EFFECTS ON THE TURBINE BLADE HEAT TRANSFER (MEA-8016889*)*; 12 MONTHS $58,731

DELPH, TERRY J; *DEVELOPMENT AND APPLICATION OF CONSERVATION LAWS FOR A CLASS OF TIME-DEPENDENT INELASTIC CONSTITUTIVE RELATIONS (MEA-8018412)*; 12 MONTHS $24,145

RIVLIN, RONALD S; *STUDIES IN NON-LINEAR CONTINUUM PHYSICS (MCS-8026567*)*; 12 MONTHS $14,800

MCALLISTER, GREGORY T; *ON NUMERICAL METHODS FOR TWO PROBLEMS IN ELLIPTIC DIFFERENTIAL EQUATIONS (MCS-8101894*)*; 24 MONTHS $17,319

PENNSYLVANIA STATE UNIVERSITY

SHARMA, M G, AND MORROW, CHARLES T; *MECHANICS OF FAILURE IN A SOFT BIOLOGICAL TISSUE (MEA-7735009 A02)*; 24 MONTHS $116,936

TARBELL, JOHN M; *PERIODIC FLOW IN CURVED TUBES (MEA-8010678)*; 12 MONTHS $49,776

SCHMIDT, FRANK W; *THIRD SYMPOSIUM ON TURBULENT SHEAR FLOWS: SEPTEMBER 9-11, 1981, DAVIS, CALIFORNIA (MEA-8014435*)*; 12 MONTHS $4,000

SCHMIDT, FRANK W; *HIGH RAYLEIGH NUMBER NATURAL CONVECTION IN AN ENCLOSURE (MEA-8025102)*; 12 MONTHS $49,916

MIDHA, ASHOK; *ANALYTICAL AND EXPERIMENTAL INVESTIGATION OF MEMBER INITIAL CURVATURE EFFECTS ON ELASTIC MECHANISM RESPONSE (MEA-8104709)*; 24 MONTHS $69,896

UNIVERSITY OF PENNSYLVANIA

DUSSAN, ELIZABETH B; *THE MOVING CONTACT LINE (MEA-8010884)*; 24 MONTHS $83,831

BURGERS, PIERRE; *ANALYSIS OF BIFURCATION AND KINKING OF RAPIDLY PROPAGATING CRACKS IN BRITTLE MATERIALS (MEA-8018404)*; 24 MONTHS $54,962

AYYASWAMY, PORTONOVO S, AND SADHAL, SATWINDAR S; *LAMINAR FILM CONDENSATION ON A DROPLET TRANSLATING IN A STEAM-AIR MIXTURE (MEA-8023861)*; 4 MONTHS $15,000

WESTINGHOUSE ELECTRIC CORPORATION

HUDSON, CHRISTOPH A; *PROGRAMMABLE ASSEMBLY RESEARCH TECHNOLOGY TRANSFER TO INDUSTRY - PHASE I (MEA-7818773 A02)*; 3 MONTHS $150,000

HUDSON, CHRISTOPH A; *PROGRAMMABLE ASSEMBLY RESEARCH TECHNOLOGY TRANSFER TO INDUSTRY - PHASE II (MEA-7818773 A03*)*; 12 MONTHS $305,513

RHODE ISLAND

BROWN UNIVERSITY

LIU, JOSEPH T; *STUDIES OF SHEAR FLOW INSTABILITIES (MEA-7822127 A02)*; 12 MONTHS $50,029

PIPKIN, ALLEN C; *MECHANICAL PROPERTIES OF SOLIDS AND LIQUIDS (MCS-7903392 A02*)*; 12 MONTHS $11,356

CLIFTON, RODNEY J, AND FREUND, LAMBERT B; *FUNDAMENTAL STUDIES IN DYNAMIC PLASTICITY BY MEANS OF PLANE WAVE EXPERIMENTS (MEA-7910633 A01)*; 12 MONTHS $93,045

DUFFY, J; *THE MECHANICAL BEHAVIOR OF POLYCRYSTALLINE AND SINGLE CRYSTAL METALS BASED ON EXPERIMENTS INVOLVING INCREMENTS IN STRAIN RATE AND TEMPERATURE (MEA-7913742 A01)*; 12 MONTHS $82,298

SU, CHAU-HSIN; *NONLINEAR WATER WAVES (MEA-8012192)*; 12 MONTHS $38,265

DAFERMOS, CONSTANTI M; *STABILITY THEORY IN CONTINUUM MECHANICS AND THERMODYNAMICS (MEA-8023824)*; 12 MONTHS $39,087

NEEDLEMAN, ALAN; *COMPUTER SIMULATION STUDIES OF PLASTIC INSTABILITY PHENOMENA (MEA-8101948)*; 12 MONTHS $43,430

UNIVERSITY OF RHODE ISLAND

BIRK, JOHN R; *GENERAL METHODS TO ENABLE ROBOTS WITH VISION TO ACQUIRE, ORIENT AND TRANSPORT WORKPIECES (MEA-7827337 A01)*; 24 MONTHS $426,300

TENNESSEE

CRC WELDING SYSTEMS INC

COOK, GEORGE E; *RESEARCH ON ADAPTIVE ARC TRACKING FOR WELDING, PHASE II (MEA-8114542*)*; 12 MONTHS $43,390

UNIVERSITY OF TENNESSEE AT KNOXVILLE

REMENYIK, CARL J; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH: DYNAMICS OF BUBBLES BENEATH DOWNWARD-FACING SURFACES (MEA-8023833*)*; 24 MONTHS $28,750

PERONA, JOSEPH J; *EXPERIMENTAL STUDY OF DIRECT CONTACT BOILING (MEA-8024396)*; 12 MONTHS $55,000

VANDERBILT UNIVERSITY

JOHNSON, GLEN ERIC; *RESEARCH INITIATION: DEVELOPMENT OF MODEL-BASED DESIGN SYNTHESIS TECHNIQUE (MEA-8119130)*; 15 MONTHS $16,565

TEXAS

TEXAS A & M UNIVERSITY

FLETCHER, LEROY S; *AN ANALYSIS OF THE THERMAL CONTACT CONDUCTANCE OF DISSIMILAR METAL CONTACTS (MEA-8103230)*; 12 MONTHS $37,913

UNIV OF TEXAS AT AUSTIN

MIKSAD, RICHARD W; *EXPERIMENTS ON NONLINEAR INTERACTIONS DURING TRANSITION TO TURBULENCE (MEA-7800719 A02)*; 12 MONTHS $51,361

SWINNEY, HARRY L; *INSTABILITIES, TURBULENCE, AND CRITICAL PHENOMENA IN FLUID FLOWS (MEA-7909585 A01*)*; 12 MONTHS $65,262

RYLANDER, HENRY G; *STUDY OF HOMOPOLAR PULSE RESISTANCE WELDING PARAMETERS FOR RAILROAD RAILS AND AUTOMOTIVE PARTS (MEA-8005918 A01)*; 3 MONTHS $99,224

KLEIN, DALE, AND LAMB, J PARKER; *LOCAL HEAT TRANSFER RATES AND PROFILE PARAMETERS IN THE TRANSITION AND THE HYDRAULICALLY ROUGH REGIONS (MEA-8018405)*; 24 MONTHS $76,373

PRIGOGINE, ILYA; *WORKSHOP ON LONG-TIME PREDICTION IN NONLINEAR CONSERVATIVE DYNAMICAL SYSTEMS (MEA-8021225)*; 18 MONTHS $15,000

DILLER, KENNETH R; *COUPLED HEAT AND MASS TRANSPORT DURING SOLUTION SOLIDIFICATION (MEA-8023267)*; 12 MONTHS $49,965

RYLANDER, HENRY G; *THE HEATING OF FORGING BILLETS USING THE PULSED HOMOPOLAR GENERATOR (MEA-8111918*)*; 6 MONTHS $90,186

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

HUSSAIN, AKM FAZLE; *STUDIES OF COHERENT STRUCTURES IN TURBULENT SHEAR FLOWS (MEA-7822110 A02)*; 3 MONTHS $15,006

NEREM, ROBERT M; *UNSTEADY FLOW IN COMPLICATED ARTERIAL GEOMETRIES (MEA-8001701 A01)*; 12 MONTHS $58,937

WITTE, LARRY C; *AN EXPERIMENTAL STUDY OF VAPOR FILM INSTABILITY (MEA-8008036)*; 12 MONTHS $60,762

NEREM, ROBERT M; *SPECIALISTS' MEETING ON HEMODYNAMICS AND THE ARTERY WALL, UNIVERSITY OF HOUSTON, NOVEMBER 5-7, 1980 (MEA-8021052)*; 12 MONTHS $9,920

UTAH

UNIVERSITY OF UTAH

OLSON, FERRON A; *WORKSHOP - CYANIDE AND ORGANIC EFFLUENTS FROM MINERAL PROCESSING (29R-8119007)*; 8 MONTHS $2,000

UTAH RESEARCH INSTITUTE

WRIGHT, PHILLIP M; *SOLUTION MINING AND HYDROMETALLURGY PHASE I: DEFINITION OF PROBLEMS (CPE-8116335*)*; 6 MONTHS $24,500

VIRGINIA

DEPARTMENT OF AIR FORCE-OFFICE OF SCIENTIFIC RESEARCH

WILSON, JAMES D; *1980-81 CONFERENCE ON EVALUATION OF DATA SETS AND COMPUTING PROCEDURES FOR FLUID FLOW FIELD INVOLVING VISCID-INVISCID INTERACTIONS (MEA-8111059)*; 12 MONTHS $10,000

KAPPA SYSTEMS INC

DARNELL, WILLIAM G; *CONTINUATION AND IMPROVEMENT OF THE EXTERNAL PRODUCT EVALUATION SYSTEM (29A-8007241 A04*)*; 12 MONTHS $25,333

OLD DOMINION UNIVERSITY

PRABHAKARAN, R; *SEPARATION OF PRINCIPAL STRESSES IN PHOTO-ORTHOTROPIC ELASTICITY (MEA-8012956)*; 24 MONTHS $58,080

RUMSON CORPORATION

KAPLAN, ROBERT L; *DETERMINING FLOOD HAZARD MITIGATION POLICY AND RESEARCH PRIORITIES (OIR-8119817)*; 8 MONTHS $20,698

UNIVERSITY OF VIRGINIA

FLACK, RONALD D, AND SEXTON, MICHAEL R; *EXPERIMENTAL INVESTIGATION OF PRESSURES IN MULTILOBE BEARINGS (MEA-8105493)*; 12 MONTHS $41,833

VIRGINIA POLYTECHNIC INSTITUTE

HERAKOVICH, CARL T; *IUTAM SYMPOSIUM ON MECHANICS OF COMPOSITE MATERIALS, BLACKSBURG, VIRGINIA, AUGUST 15-20, 1982 (MEA-8025158)*; 12 MONTHS $10,000

FUREY, MICHAEL J, WOOD, HENRY L, AND THOMAS, WILLIAM C; *INFRARED MEASUREMENTS OF SURFACE TEMPERATURES PRODUCED BY FRICTION IN DRY SLIDING CONTACT (MEA-8105491)*; 27 MONTHS $99,943

WASHINGTON

UNIVERSITY OF WASHINGTON

SLEICHER, CHARLES A; *HEAT TRANSFER FROM VARIABLE PROPERTY FLUIDS AT LARGE TEMPERATURE DIFFERENCES (MEA-8011035)*; 24 MONTHS $125,652

WASHINGTON STATE UNIVERSITY

PLUMB, OVID A; *HEAT, MASS AND MOMENTUM TRANSPORT IN POROUS MATERIALS - APPLICATION TO WOOD DRYING (MEA-7906567 A01)*; 12 MONTHS $41,679

TROUTT, TIMOTHY R; *RESEARCH INITIATION: AN EXPERIMENTAL STUDY OF COHERENT TURBULENT STRUCTURE IN A REATTACHING SEPARATED FLOW (MEA-8105945)*; 24 MONTHS $48,000

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

POWELL, HUGH N; *THERMAL CONDUCTIVITY OF OXYGEN FROM 1000 TO 4400 K (MEA-7822662 A01)*; 12 MONTHS $59,490

LODGE, ARTHUR S; *STRESS TRANSIENTS IN ELASTIC LIQUIDS OF HIGH VISCOSITY (MEA-7824180 A01)*; 12 MONTHS $65,000

VAN SCIVER, STEVEN W; *STABILIZATION OF SUPERCONDUCTING MAGNETS IN HE II - HEAT TRANSFER ASPECTS (MEA-8011583)*; 12 MONTHS $45,940

WU, S M; *INVESTIGATIONS OF MULTI-FACET DRILL (MFD) AND OPTIMIZATION (MEA-8108191)*; 24 MONTHS $81,550

UNIVERSITY OF WISCONSIN-MILWAUKEE

BRATANOW, THEODORE; *HYDRODYNAMIC RESISTANCE OF BODIES IN VISCOUS FLOWS (MEA-7921556 A01)*; 12 MONTHS $42,834

CHAN, SHIH H; *TRANSIENT FOULING HEAT TRANSFER AND SCALE REMOVAL (MEA-8004360 A01)*; 12 MONTHS $62,503

BIOLOGICAL, BEHAVIORAL AND SOCIAL SCIENCES

PHYSIOLOGY, CELLULAR AND MOLECULAR BIOLOGY

ALABAMA

AUBURN UNIVERSITY MAIN CAMPUS

BRADLEY, JAMES T; *YOLK PROTEIN FORMATION IN AN INSECT EGG (PCM-8104329)*; 24 MONTHS $68,148

UNIVERSITY OF ALABAMA IN BIRMINGHAM

HUDSON, JACK W; *THYROID AND THERMOGENESIS IN SMALL MAMMALS (PCM-7914629 A02)*; 12 MONTHS $50,643

PRITCHARD, DAVID G; *CHEMICAL AND IMMUNOCHEMICAL CHARACTERIZATION OF THE GROUP SPECIFIC POLYSACCHARIDES OF GROUPS B AND G STREPTOCOCCI (PCM-8010929)*; 24 MONTHS $88,000

BENNETT, J CLAUDE, AND ACTON, RONALD T; *SUPPORT OF A CELL CULTURE CENTER (PCM-8010502)*; 12 MONTHS $217,649

STRALEY, SUSAN C; *PHYSIOLOGICAL CHANGES IN YERSINIAE: ROLE IN INTRACELLULAR PARASITISM (PCM-8100317)*; 24 MONTHS $96,000

ROY, POLLY; *REPLICATION OF RHABDOVIRUSES (PCM-8104086)*; 12 MONTHS $37,000

UNIVERSITY OF SOUTH ALABAMA

JONES, HAROLD P; *CALMODULIN AND NEUTROPHIL ACTIVATION (PCM-8023011)*; 12 MONTHS $29,988

LEINBACH, SUSAN S; *NUCLEOPROTEIN COMPLEXES IN HERPESVIRUS INFECTED CELLS (PCM-8110367)*; 12 MONTHS $55,408

ARIZONA

ARIZONA STATE UNIVERSITY

TRELEASE, RICHARD N; *GLYOXYLATE CYCLE METABOLISM IN PLANTS AND NEMATODES (PCM-7823156 A02)*; 12 MONTHS $44,941

CHURCH, KATHLEEN K; *CHROMOSOME DISTRIBUTION SYSTEMS IN DROSOPHILA MELANOGASTER (PCM-7908850 A02)*; 12 MONTHS $52,000

REEVES, HENRY C; *MODULATION OF NADP -ISOCITRATE DEHYDROGENASE (PCM-7921714 A01)*; 12 MONTHS $65,835

HAZEL, JEFFREY R; *THERMAL ADAPTATION IN BIOLOGICAL MEMBRANES OF POIKILOTHERMS (PCM-8003454 A01)*; 12 MONTHS $39,509

DAVIDSON, ELIZABETH W; *INSECTICIDAL TOXIN OF BACILLUS SPHAERICUS STRAIN 1593 (PCM-8004262 A01)*; 12 MONTHS $37,500

HADLEY, NEIL F; *CUTICULAR LIPIDS AND THEIR ROLE IN CONTROLLING TRANSPIRATION IN TERRESTRIAL ARTHROPODS (PCM-8021566)*; 12 MONTHS $47,500

GENTRY, HOWARD S; *GUM TRAGACANTH PLANT SELECTION AND SEED INCREASE (PCM-8106123)*; 36 MONTHS $63,137

CHANDLER, DOUGLAS E; *THE ROLE OF CALCIUM IN LYSOSOMAL ENZYME SECRETION BY NEUTROPHILS (PCM-8109788)*; 12 MONTHS $60,000

UNIVERSITY OF ARIZONA-COLLEGE OF MEDICINE

DANTZLER, WILLIAM H; *RENAL FUNCTION IN VERTEBRATES (PCM-7909087 A02)*; 12 MONTHS $60,213

MOUNT, DAVID W, AND LITTLE, JOHN W; *GENETIC STUDIES OF ESCHERICHIA COLI K-12 (PCM-7919059 A02)*; 12 MONTHS $50,000

WELLS, MICHAEL A; *MECHANISM OF ACTION OF PHOSPHOLIPASES (PCM-8023654)*; 12 MONTHS $35,000

UNIVERSITY OF ARIZONA

BARSTOW, LEON E; *PREPARATION AND EVALUATION OF SEMI-SYNTHETIC ANALYSIS OF HEART MUSCLE CYTOCHROME C (PCM-7817029 A01*)*; 24 MONTHS $30,000

WILSON, GEORGE S; *ELECTROCHEMICAL STUDIES OF BIOLOGICAL REDOX REACTIONS (PCM-8011555 A01)*; 12 MONTHS $43,000

HEWLETT, MARTINEZ J; *BIOCHEMISTRY OF UUKUNIEMI VIRUS RNA (PCM-8011785 A01)*; 12 MONTHS $38,000

BLOSS, H EARL; *ROLE OF MYCORRHIZAE IN ENHANCED GUAYULE FIELD PRODUCTIVITY (PCM-8024727)*; 18 MONTHS $45,163

HADLEY, MAC E; *MELANOCYTE STIMULATING HORMONE RECEPTOR CHARACTERIZATION (PCM-8100708)*; 24 MONTHS $134,082

HRUBY, VICTOR J; *STRUCTURAL STUDIES OF SYNTHETIC HORMONES AND POLYPEPTIDES (PCM-8112800)*; 12 MONTHS $40,000

ARKANSAS

UNIVERSITY OF ARKANSAS FAYETTEVILLE

HINTON, JAMES F, AND MILLETT, FRANCIS S; *T1 NMR STUDY OF ION TRANSPORT IN BIOLOGICAL MEMBRANES (PCM-7827037 A02)*; 12 MONTHS $44,000

UNIVERSITY OF ARKANSAS MED SCIENCES CAMPUS

TANK, PATRICK W; *PATTERN REGULATION IN REGENERATING AND DEVELOPING FORELIMBS OF SALAMANDERS (PCM-7920503 A01)*; 12 MONTHS $32,575

CALIFORNIA

AGOURON INSTITUTE

ABELSON, JOHN N, AND JANSSEN, KAAREN A; *THE MECHANISMS OF CONTROL OF HISTIDINE UTILIZATION IN BACTERIA (PCM-8019505)*; 24 MONTHS $94,308

AMERICAN SOCIETY OF ZOOLOGISTS

RAO, K R; *SYMPOSIUM ON CHROMATOPHORES AND COLOR CHANGES; DALLAS, TEXAS DECEMBER 1981 (PCM-8100077)*; 12 MONTHS $5,000

LAMBERT, CHARLES C; *SYMPOSIUM ON DEVELOPMENTAL BIOLOGY OF THE ASCIDIANS; DALLAS, TEXAS; DECEMBER 27-30, 1981 (PCM-8108758)*; 6 MONTHS $1,995

HADLEY, NEIL F; *SYMPOSIUM ON RESEARCH DEVELOPMENT IN ARTHROPOD WATER RELATIONS; DALLAS, TEXAS; DECEMBER 28, 1981 (PCM-8108861)*; 12 MONTHS $5,000

DENT, JAMES N; *SYMPOSIUM ON COMPARATIVE ENDOCRINOLOGY; HONG KONG; DECEMBER 7-11, 1981 (PCM-8110122)*; 6 MONTHS $7,000

SAWYER, ROGER H; *SYMPOSIUM IN: EPITHELIAL-MESENCHYMAL INTERACTIONS IN DEVELOPMENT, DECEMBER 27-30, 1981, DALLAS, TEXAS (PCM-8114310)*; 6 MONTHS $1,182

ANVER BIOSCIENCE DESIGN INC

VERBISCAR, ANTHONY J; *QUAYULE BY-PRODUCTS, RUBBER ANALYSIS AND SEED SELECTION (PCM-7910187 A01)*; 12 MONTHS $104,500

VERBISCAR, ANTHONY J; *DEVELOPMENT OF RED SQUILL AS A RODENTICIDE (PCM-7923514 A02*)*; 12 MONTHS $99,460

BOTANICAL SOCIETY OF AMERICA

SOUTHWORTH, DARLENE; *SYMPOSIUM: BIOLOGY OF POLLEN, AUGUST 16-22, 1981, BLOOMINGTON, INDIANA (PCM-8108515*)*; 6 MONTHS $1,100

GRUN, PAUL; *SYMPOSIUM: 'FRONTIERS OF PLANT GENETICS'; AUGUST 17, 1981; BLOOMINGTON, INDIANA (PCM-8111056)*; 6 MONTHS $1,000

CALIFORNIA DEPARTMENT OF HEALTH SERVICES

DUNNEBACKE, THELMA H; *STUDIES ON THE CYTOPATHOGEN FROM AMEBAE OF THE GENUS NAEGLERIA (PCM-8109261)*; 12 MONTHS $75,000

CALIFORNIA INSTITUTE OF TECHNOLOGY

BENZER, SEYMOUR; *GENETIC ANALYSIS OF NERVOUS SYSTEM AND BEHAVIOR (PCM-7911771 A01)*; 12 MONTHS $239,536

LAZARIDES, ELIAS; *THE BIOSYNTHESIS AND METABOLISM OF DESMIN AND INTERMEDIATE FILAMENTS (PCM-7914185 A01)*; 12 MONTHS $42,788

BERG, HOWARD C; *BACTERIAL FLAGELLAR ROTATION (PCM-7922601 A01)*; 12 MONTHS $40,000

BERG, HOWARD C; *PHYCOMYCES: PHYSIOLOGY, BIOCHEMISTRY, GENETICS (PCM-8003846 A01)*; 7 MONTHS $56,000

DAVIDSON, ERIC H, AND BRITTEN, ROY J; *REPETITIVE SEQUENCE EXPRESSION AND GENOMIC EVOLUTION (PCM-8004072 A01)*; 12 MONTHS $50,000

DREYER, WILLIAM J; *PROTEIN CHEMICAL STUDIES OF GP70 DIVERSITY (PCM-8005599 A01)*; 12 MONTHS $50,000

STRAUSS, JAMES H; *STRUCTURE AND REPLICATION OF SINDBIS VIRUS (PCM-8022830)*; 12 MONTHS $40,000

CALIFORNIA STATE COLLEGE, BAKERSFIELD

BLUME, F DUANE; *METABOLIC AND ENDOCRINE FUNCTION AT EXTREME ALTITUDES (PCM-8108881)*; 12 MONTHS $31,212

CALIFORNIA STATE UNIVERSITY, FULLERTON

LAMBERT, CHARLES C; *MITOCHONDRIAL TRANSPORT IN THE ASCIDIAN SPERM REACTION: THE ROLES OF CA2 AND PH (PCM-7911483 A01)*; 24 MONTHS $35,000

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

OPPENHEIMER, STEVEN B; *ADHESION MECHANISMS OF SEA URCHIN EMBRYO CELLS (PCM-8017668)*; 24 MONTHS $31,526

BARBER, MARY L; *CELL MEMBRANE LIPIDS AND CELL BEHAVIOR IN DEVELOPMENT (PCM-8113045)*; 24 MONTHS $47,000

CITY OF HOPE RESEARCH INSTITUTE

SHIVELY, JOHN E; *PROTEIN MICROSEQUENCE ANALYSIS AND MOLECULAR CLONING OF HUMAN FIBRONECTINS (PCM-8022705)*; 12 MONTHS $40,000

ROSSI, JOHN J; *SYNTHETIC DNA IN PROKARYOTIC REGULATORY SEQUENCE STUDIES (PCM-8108280)*; 12 MONTHS $45,000

HARVEY MUDD COLLEGE

PURVES, WILLIAM K; *SHOOT DEVELOPMENT: REGULATION OF HORMONE LEVELS (PCM-8011805)*; 24 MONTHS $63,067

HELICON FOUNDATION

THOMAS, CHARLES A; *FUNCTIONAL DETERMINATION OF CHROMATIN (PCM-8116391)*; 8 MONTHS $41,340

LA JOLLA CANCER RESEARCH FOUNDATION

FUJIMURA, FRANK K; *VIRUSES AND TERATOCARCINOMA CELL DIFFERENTIATION (PCM-8103300)*; 12 MONTHS $49,995

SALK INSTITUTE FOR BIOLOGICAL STUDIES

SCHUBERT, DAVID R; *ACQUISITION OF A DIFFERENTIATION-MULTI-USER EQUIPMENT (PCM-8008726)*; 12 MONTHS $27,000

PFAHL, MAGNUS; *GENETIC APPROACH TO STEROID HORMONE ACTION (PCM-8104184)*; 12 MONTHS $75,000

SAN DIEGO STATE UNIVERSITY

DAHMS, A S; *SELECTIVE CHEMICAL PROBES AT MEMBRANE STRUCTURE AND FUNCTION (PCM-7808259 A02)*; 12 MONTHS $37,000

VANWINKLE-SWIFT, KAREN P; *GENETICS AND CELL BIOLOGY OF HOMOTHALLISM IN CHLAMYDOMONAS (PCM-8010926 A01)*; 12 MONTHS $49,994

PAOLINI, PAUL; *ACQUISITION OF AN OPTICAL ANALYZER FOR STRIATED MUSCLE CELL STUDIES (PCM-8101984)*; 12 MONTHS $90,000

SAN FRANCISCO STATE UNIVERSITY

BOWEN, SARANE T; *ARTEMIA HEMOGLOBINS: GENETIC REGULATION (PCM-7904662 A01)*; 12 MONTHS $45,000

SCRIPPS CLINIC AND RESEARCH FOUNDATION

HATEFI, YOUSSEF; *MOLECULAR AND ENZYMIC STUDIES ON THE MITOCHONDRIAL ATP-PI EXCHANGE COMPLEX (COMPLEX V) (PCM-7826790 A02)*; 12 MONTHS $35,000

SIEGEL, JACQUELIN G, AND GOTTESFELD, JOEL M; *EQUIPMENT FOR: 1. GENETIC DISSECTION OF DROSOPHILA HISTONE GENES; 2. ISOLATION OF 5S GENE CHROMATIN (PCM-8003762)*; 12 MONTHS $10,034

ESSER, ALFRED F; *COMPLEMENT ACTIVATION ON LIPID BILAYER MEMBRANES (PCM-8011543)*; 12 MONTHS $35,000

THOMAS, CHARLES A; *FUNCTIONAL DETERMINATION OF CHROMATIN (PCM-8025411)*; 12 MONTHS $50,000

SRI INTERNATIONAL

VOLD, BARBARA S; *FUNCTION OF MODIFIED NUCLEOSIDES OF TRNA (PCM-8024082)*; 24 MONTHS $80,000

STANFORD UNIVERSITY-HOPKINS MARINE STATION

MAZIA, DANIEL; *THE ESTABLISHMENT OF THE MITOTIC APPARATUS (PCM-8104467)*; 12 MONTHS $54,291

STANFORD UNIVERSITY-SCHOOL OF MEDICINE

BALDWIN, ROBERT L; *INTERMEDIATES IN PROTEIN FOLDING REACTIONS AND THE MECHANISM OF PROTEIN FOLDING (PCM-7716834 A05)*; 12 MONTHS $50,000

KORNBERG, ARTHUR; *MEMBRANES IN DNA REPLICATIONS AND THE VIRAL LIFE CYCLE (PCM-7725985 A03)*; 12 MONTHS $65,000

HOGNESS, DAVID S; *THE STRUCTURE AND FUNCTION OF ANIMAL CHROMOSOMES (PCM-7822421 A02)*; 12 MONTHS $82,208

STOCKDALE, FRANK E; *SKELETAL MUSCLE CELL DIFFERENTIATION (PCM-7904963 A02)*; 12 MONTHS $60,000

CIARANELLO, ROLAND D; *S-ADENOSYLMETHIONINE IN NEUROTRANSMITTER FUNCTION (PCM-8011525)*; 12 MONTHS $50,002

BALDWIN, ROBERT L; *TERTIARY STRUCTURE OF DNA IN PHAGE LAMBDA (PCM-8022706)*; 12 MONTHS $47,000

KORN, LAURENCE; *CONTROL OF TRANSCRIPTION OF THE XENOPUS 5S RRNA GENES (PCM-8104522)*; 12 MONTHS $70,000

STANFORD UNIVERSITY

YANOFSKY, CHARLES; *GENETICS AND BIOCHEMISTRY OF THE TRYPTOPHAN OPERON (PCM-7724333 A03)*; 12 MONTHS $105,800

PECORA, ROBERT; *THEORETICAL AND EXPERIMENTAL STUDIES OF THERMAL MOTIONS IN LIQUIDS AND POLYMER SYSTEMS (CHE-7901070 A02*)*; 12 MONTHS $25,000

LEHMAN, I ROBERT; *MECHANISMS OF GENETIC RECOMBINATION (PCM-7904638 A02)*; 12 MONTHS $70,000

HODGSON, KEITH O, AND DONIACH, SEBASTIAN; *APPLICATION OF X-RAY PHOTOABSORPTION SPECTROSCOPY TO THE STUDY OF MOLECULES OF BIOLOGICAL INTEREST (PCM-7904915 A02)*; 12 MONTHS $60,000

BOXER, STEVEN G; *PHOTOCHEMICAL MECHANISM AND MACROMOLECULAR ORGANIZATION IN PHOTOSYNTHETIC MODELS AND REACTION CENTERS (PCM-7926677 A01)*; 12 MONTHS $50,000

KAISER, ARMIN D; *CELL-CELL INTERACTIONS AND MOTILITY IN MYXOCOCCUS (PCM-8010635)*; 12 MONTHS $60,314

ZEIGER, EDUARDO; *LIGHT, STOMATAL FUNCTION, AND ENERGY TRANSDUCTION IN THE GUARD CELLS (PCM-8012060)*; 12 MONTHS $53,628

RAY, PETER M; *EARLY METABOLIC RESPONSES TO AUXIN (PCM-8012573)*; 24 MONTHS $162,995

FALKOW, STANLEY; *EVOLUTION OF BACTERIAL PLASMIDS (PCM-8015722)*; 12 MONTHS $80,000

FEIGENBAUM, EDWARD A, BUCHANAN, BRUCE G, KEDES, LAWRENCE H, AND BRUTLAG, DOUGLAS L; *MOLGEN: A COMPUTER SCIENCE APPLICATION TO MOLECULAR BIOLOGY (ECS-8016247 A01*)*; 12 MONTHS $39,946

PARHAM, PETER; *MOLECULAR BASIS OF POLYMORPHIC HLA ANTIGENIC DETERMINANTS (PCM-8017834)*; 12 MONTHS $55,000

MATIN, ABDUL; *MECHANISM OF PH GENERATION IN THIOBACILLUS ACIDOPHILUS (PCM-8021571)*; 24 MONTHS $107,520

WALLACE, DOUGLAS C; *CYTOPLASMIC GENETICS IN CULTURED MAMMALIAN CELLS (PCM-8021871)*; 12 MONTHS $52,636

JARDETZKY, OLEG; *NUCLEAR MAGNETIC RESONANCE INVESTIGATIONS OF MACROMOLECULAR DYNAMICS (PCM-8021899)*; 12 MONTHS $65,000

MCCONNELL, HARDEN M; *PROBLEMS IN MEMBRANE BIOPHYSICS (PCM-8021993)*; 12 MONTHS $90,000

GREEN, PAUL B; *BIOPHYSICS OF ORGANOGENESIS IN PLANTS (PCM-8102390)*; 12 MONTHS $53,764

EPEL, DAVID; *BIOCHEMISTRY OF FERTILIZATION AND EARLY DEVELOPMENT (PCM-8105123)*; 12 MONTHS $125,000

LEDERBERG, ESTHER M; *MAINTENANCE OF THE PLASMID REFERENCE CENTER (PCM-8105434)*; 12 MONTHS $42,209

PITTENDRIGH, COLIN S; *PHYSIOLOGICAL AND GENETIC ANALYSIS OF THE CIRCADIAN COMPONENT IN THE PHOTOPERIODISM OF DROSOPHILA AURARIA (PCM-8113041)*; 12 MONTHS $59,541

UNIVERSITY OF CALIFORNIA, BERKELEY-BODEGA MARINE LABORATORY

MACHEN, TERRY E; *ION AND WATER TRANSPORT BY TELEOST URINARY BLADDER (PCM-7725305 A02)*; 12 MONTHS $30,000

UNIVERSITY OF CALIFORNIA, BERKELEY

SAUER, KENNETH, AND KLEIN, MELVIN P; *MECHANISM OF WATER SPLITTING AND OXYGEN EVOLUTION IN PHOTOSYNTHESIS (PCM-7812121 A01)*; 12 MONTHS $40,000

NEILANDS, JOHN B; *IRON ASSIMILATION SYSTEMS AS DETERMINANTS OF VIRULENCE IN MICROBIAL PLANT PATHOGENS (PCM-7812198 A02)*; 12 MONTHS $28,923

BUCHANAN, BOB B; *REGULATORY MECHANISMS IN CARBOHYDRATE SYNTHESIS (PCM-7815287 A02)*; 12 MONTHS $72,991

BEARDEN, ALAN J; *EPR STUDIES OF CHLOROPLAST PHOTOSYNTHESIS (PCM-7822245 A02)*; 12 MONTHS $49,001

FRAENKEL-CONRAT, HEINZ L; *A NATURE AND FUNCTION OF RNA REPLICATING ACTIVITY IN PLANT LEAVES (PCM-7825159 A02)*; 12 MONTHS $40,000

TAYLOR, WILLIAM C; *GENE REGULATION DURING HIGHER PLANT DEVELOPMENT (PCM-7826789 A02)*; 12 MONTHS $45,000

NICOLL, CHARLES S; *EVOLUTIONARY BIOLOGY OF PROLACTINS AND SOMATOTROPINS (PCM-7904562 A02)*; 12 MONTHS $69,346

WILT, FRED H; *STABILITY OF HISTONE MESSENGER RNA IN DEVELOPING EMBRYOS (PCM-7904603 A01)*; $9,063

MORTIMER, ROBERT K; *GENETIC STUDIES OF SACCHAROMYCOPSIS LIPOLYTICA (PCM-7904660 A01)*; 12 MONTHS $45,034

KIRSCH, JACK F; *MECHANISMS OF ENZYMATIC CATALYSIS (PCM-7910971 A02)*; 12 MONTHS $55,000

GLAZER, ALEXANDER N; *MOLECULAR ARCHITECTURE OF LIGHT-ENERGY TRANSDUCING SYSTEMS (PCM-7910996 A01)*; 12 MONTHS $45,000

SAUER, KENNETH; *ENERGY CONVERSION IN PHOTOSYNTHETIC MEMBRANES (PCM-7911251 A02)*; 12 MONTHS $50,000

CHANG, GEORGE W; *EFFECTS OF FOOD ADDITIVES ON THE FUNCTION OF THE INTESTINAL MICROFLORA (PCM-7919105 A02*)*; 12 MONTHS $72,559

ZUSMAN, DAVID; *REGULATION OF GENE EXPRESSION IN BACTERIA (PCM-7922249 A01)*; 12 MONTHS $45,000

ARNON, DANIEL I; *ELECTRON TRANSPORT AND PHOSPHORYLATION IN ENERGY TRANSDUCING MEMBRANES (PCM-7925581 A02)*; 12 MONTHS $92,800

KOSHLAND, DANIEL E; *BIOCHEMISTRY OF ADAPTIVE RESPONSES (PCM-8006252 A01)*; 12 MONTHS $39,000

WILLIAMS, ROBLEY C; *ELECTRON MICROSCOPY OF ENZYMES AND OTHER OLIGOMERIC STRUCTURES (PCM-8010650 A01)*; 12 MONTHS $30,000

BURNSIDE, MARY B; *MOTILE MODELS OF TELEOST RETINAL CONES (PCM-8011792 A01)*; 12 MONTHS $50,000

LAETSCH, W M; *CELL WALL ANTIGEN CHANGES DURING THE DEVELOPMENT OF FUCUS EMBRYOS (PCM-8012021 A02)*; 12 MONTHS $58,930

KLINMAN, JUDITH P; *STRUCTURE-FUNCTION STUDIES OF CU2 AMINE OXIDASES (PCM-8012022)*; 12 MONTHS $47,000

JENSEN, WILLIAM A, JONES, RUSSELL L, AND CANDE, WILLIAM Z; *AN ELECTRON MICROSCOPE (PCM-8018802)*; 12 MONTHS $114,000

SCHEKMAN, RANDY W; *MECHANISM AND CONTROL OF EUKARYOTIC CELL DIVISION (PCM-8019415)*; 12 MONTHS $41,276

KIM, SUNG-HOU; *PHYSICAL STUDIES OF DNA-PROTEIN RECOGNITION (PCM-8019468)*; 12 MONTHS $50,000

DANIELL, ELLEN; *ADENOVIRUS CHROMATIN: FUNCTION OF VIRALLY CODED BASIC PROTEINS (PCM-8020825)*; 12 MONTHS $58,478

SUNG, ZINMAY R; *DEVELOPMENTAL GENETICS OF CARROT EMBRYOGENESIS (PCM-8021209)*; 12 MONTHS $45,000

BECKENDORF, STEVEN K; *DEVELOPMENTAL GENE REGULATION: THE GLUE PROTEIN GENES (PCM-8021834)*; 12 MONTHS $40,000

WILT, FRED H; *GENE EXPRESSION IN EARLY EMBRYONIC DEVELOPMENT (PCM-8022836)*; 12 MONTHS $45,005

SCHACHMAN, HOWARD K; *FUNCTIONAL ASPECTS OF THE QUANTERNARY STRUCTURE OF PROTEINS. EFFECT OF MUTATIONAL ALTERATIONS ON THE DYNAMICS OF THE REGULATORY ENZYME-ASPARTATE TRANSCARBAMOYLASE (PCM-8023013)*; 12 MONTHS $70,000

BALLOU, CLINTON E; *METABOLISM AND FUNCTION OF YEAST CELL WALL GLYCOPROTEINS (PCM-8023988)*; 12 MONTHS $65,000

BALLOU, CLINTON E, AND BARTHOLOMEW, J C; *ACQUISITION OF FLUORESCENCE-ACTIVATED CELL SORTER (PCM-8025459)*; 12 MONTHS $135,000

FELDMAN, LEWIS J; *GEOTROPIC STIMULUS PRODUCTION IN ROOTS OF CORN (PCM-8101981)*; 24 MONTHS $25,424

MALKIN, RICHARD; *SPECTROSCOPIC STUDIES OF PRIMARY PHOTOCHEMICAL PROCESSES IN PHOTOSYNTHESIS (PCM-8102318)*; 12 MONTHS $46,000

STEINHARDT, RICHARD A; *IONIC REGULATION IN EARLY DEVELOPMENT (PCM-8104294)*; 12 MONTHS $70,000

LICHT, PAUL, AND PAPKOFF, HAROLD; *COMPARATIVE PHYSIOLOGY AND BIOCHEMISTRY OF VERTEBRATE PITUITARY HORMONES (PCM-8109846)*; 12 MONTHS $172,000

BERN, HOWARD A; *PROPERTIES OF NEUROSECRETORY CELLS AND CERTAIN NEUROSECRETORY SYSTEMS (PCM-8110111)*; 12 MONTHS $106,500

OSTER, GEORGE F; *THE MECHANICS OF EPITHELIAL MORPHOGENESIS (MCS-8110557*)*; 24 MONTHS $13,000

CALENDAR, RICHARD L; *A NEW GENE AFFECTING TRANSCRIPTION IN ESCHERICHIA COLI (PCM-8110826)*; 12 MONTHS $40,994

KELLER, RAYMOND E; *A CELLULAR ANALYSIS OF AMPHIBIAN GASTRULATION (PCM-8110985)*; 12 MONTHS $50,000

BROTHERS, ANN J; *ANALYSIS OF A NUCLEO-CYTOPLASMIC INTERACTION (PCM-8111234)*; 24 MONTHS $90,000

UNIVERSITY OF CALIFORNIA, DAVIS-SCHOOL OF MEDICINE

HERSHEY, JOHN W; *REGULATION OF TRANSLATION DURING EARLY DEVELOPMENT (PCM-8022833)*; 12 MONTHS $50,000

BENJAMINI, ELIEZER; *DETERMINANT-SPECIFIC REGULATION OF B CELL ACTIVATION (PCM-8103264)*; 12 MONTHS $58,345

UNIVERSITY OF CALIFORNIA, DAVIS

LYONS, JAMES M; *ENHANCING BIOLOGICAL PRODUCTION OF AMMONIA FROM ATMOSPHERIC NITROGEN AND SOIL NITRATE (PCM-7707301 A04)*; 12 MONTHS $650,000

YANG, S F; *BIOSYNTHESIS AND BIOCHEMICAL ACTION OF ETHYLENE (PCM-7809278 A02)*; 12 MONTHS $43,485

CASTELFRANCO, PAUL A; *CHLOROPHYLL BIOSYNTHESIS (PCM-7813250 A02)*; 12 MONTHS $37,500

PREISS, JACK; *STARCH METABOLISM IN LEAF TISSUE AND MAISE ENDOSPERM (PCM-7816127 A03)*; 12 MONTHS $72,000

NUCCITELLI, RICHARD L; *ION CURRENTS IN FERTILIZATION AND EARLY DEVELOPMENT (PCM-7826022 A02)*; 12 MONTHS $57,000

BASKIN, RONALD J; *FORCE GENERATION IN STRIATED MUSCLE (PCM-7903256 A02)*; 12 MONTHS $43,100

STUMPF, PAUL K; *ENZYMATIC MECHANISMS INVOLVED IN LIPID METABOLISM IN HIGHER PLANTS (PCM-7903976 A02)*; 12 MONTHS $76,682

MEEKS, JOHN C; *CONTROL OF HETEROCYST FORMATION IN FREE-LIVING AND SYMBIOTIC CYANOBACTERIA (PCM-7904136 A01*)*; 24 MONTHS $52,000

SHEPHERD, ROBERT J; *NATURE AND BIOLOGY OF DNA PLANT VIRUSES (PCM-7904960 A02)*; $5,497

SHEPHERD, ROBERT J; *NATURE AND BIOLOGY OF DNA PLANT VIRUSES (PCM-7904960 A03)*; 12 MONTHS $55,000

LUCAS, WILLIAM J; *INVESTIGATION OF THE ROLE PLAYED BY CALLOSE (PCM-7910223 A01)*; 12 MONTHS $43,914

GIFFORD, ERNEST M; *A COMPARATIVE STUDY OF APICAL MERISTEMS IN LOWER VASCULAR PLANTS (PCM-7910683 A02)*; $7,052

EPSTEIN, EMANUEL; *COMPARATIVE PHYSIOLOGY OF SALT RELATIONS OF PLANTS (PCM-7911747 A01)*; 12 MONTHS $49,831

EPSTEIN, EMANUEL, QUALSET, CALVIN O, AND SCHALLER, C W; *DEVELOPMENT OF CROPS TOLERANT OF SALINE SOILS AND WATER (PCM-7917671 A02)*; 12 MONTHS $98,720

DOI, ROY H; *CONTROL MECHANISMS IN BACTERIAL DIFFERENTIATION (PCM-7924872 A01)*; 12 MONTHS $46,000

LUCAS, WILLIAM J; *HYDROXYL ION EFFLUX, PH REGULATION OF THE CYTOPLASM AND PLASMALEMMA MEMBRANE POTENTIAL IN CHARA CORALLINA (PCM-8003133)*; 24 MONTHS $75,000

STEMLER, ALAN J; *THE FUNCTIONAL ROLE OF BICARBONATE IN PHOTOSYNTHETIC LIGHT REACTION II (PCM-8004075)*; 24 MONTHS $48,415

ERICKSON, CAROL A; *ROLE OF MATRIX AND CELL SURFACE IN NEURAL CREST CELL MORPHOGENESIS (PCM-8004524 A01)*; 12 MONTHS $35,315

CROWE, JOHN H; *ANHYDROBIOSIS IN LOWER ANIMALS (PCM-8004790 A01)*; 12 MONTHS $53,139

OGRYDZIAK, DAVID M; *EXOENZYME SECRETION IN SACCHAROMYCOPSIS LIPOLYTICA (PCM-8011510)*; 12 MONTHS $48,700

HUNGATE, R E, AND LABAVITCH, JOHN M; *BIOCHEMISTRY AND GENETICS OF CONVERSION OF THE PLANT POLYSACCHARIDES BY ANAEROBIC BACTERIA (PCM-8011571 A01)*; 12 MONTHS $99,700

GILCHRIST, DAVID G, BOTTINI, ALBERT T, AND PRATT, DAVID; *MOLECULAR ASPECTS OF DISEASE STRESS IN HIGHER PLANTS (PCM-8011793 A01)*; 12 MONTHS $25,000

TIMBERLAKE, WILLIAM E; *ORGANIZATION OF GENES REGULATED IN ASPERGILLUS DEVELOPMENT (PCM-8020054)*; 24 MONTHS $90,000

ARMSTRONG, PETER B; *MODULATION OF CELLULAR ADHESIVE AFFINITIES BY COMPONENTS OF THE EXTRACELLULAR MATRIX (PCM-8024181)*; 12 MONTHS $36,516

SILK, WENDY K; *ON SPATIAL VARIATION OF PLANT GROWTH PARAMETERS (PCM-8100296)*; 12 MONTHS $55,000

LAGARIAS, J C; *STRUCTURE-FUNCTION STUDIES ON PHYTOCHROME (PCM-8108090)*; 12 MONTHS $40,000

HORWITZ, BARBARA A; *MEMBRANE EVENTS ASSOCIATED WITH REGULATORY NONSHIVERING THERMOGENESIS (PCM-8109875)*; 12 MONTHS $50,000

UNIVERSITY OF CALIFORNIA, IRVINE-CALIFORNIA COLLEGE OF MEDICINE

WASMUTH, JOHN J; *GENETIC AND BIOCHEMICAL ANALYSIS OF MAMMALIAN CELL PROTEIN SYNTHESIS (PCM-8103600)*; 12 MONTHS $75,000

UNIVERSITY OF CALIFORNIA, IRVINE

TEWARI, KRISHNA K; *BIOGENESIS OF CELL ORGANELLES (PCM-7906434 A02)*; 12 MONTHS $49,999

BRANT, DAVID A; *CONFORMATIONAL ANALYSIS OF POLYSACCHARIDES (PCM-7923041 A01)*; 12 MONTHS $34,999

HELD, LEWIS I; *BRISTLE-PATTERN FORMATION IN DROSOPHILA DEVELOPMENT (PCM-8011777 A01)*; 12 MONTHS $35,000

HAMKALO, BARBARA A, AND RATTNER, JEROME B; *HIGHER ORDER STRUCTURE OF EUKARYOTIC CHROMATIN (PCM-8021883)*; 24 MONTHS $90,000

BENNETT, ALBERT F; *PHYSIOLOGICAL BASIS OF METABOLISM AND ACTIVITY (PCM-8102331)*; 24 MONTHS $90,000

WHITE, STEPHEN H; *DYNAMICS OF BILAYER SOLUTIONS (PCM-8104518)*; 12 MONTHS $55,000

RODRIGUEZ, ELOY; *DERMATOTOXICOLOGICAL STUDIES OF GUAYULE AND HYBRIDS (PCM-8104630)*; 18 MONTHS $89,291

HEALEY, PATRICK L; *WEST COAST REGIONAL DEVELOPMENTAL BIOLOGY CONFERENCE MARCH 25-28, 1981 IDYLLWILD, CALIFORNIA (PCM-8111225)*; 6 MONTHS $2,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES-SCHOOL OF MEDICINE

NAYAK, DEBI P; *INTERFERENCE BY DEFECTIVE INFLUENZA VIRUSES (PCM-7823220 A02)*; 12 MONTHS $56,000

WALL, RANDOLPH; *RNA PROCESSING IN IMMUNOGLOBULIN HEAVY CHAIN GENE SWITCHING AND DELETION VARIANTS (PCM-7924876 A01)*; 12 MONTHS $60,000

EISENMAN, GEORGE, AND HORN, RICHARD; *MOLECULAR BASIS OF ION SELECTIVITY IN PERMEATION AND GATING FOR NATURAL AND ARTIFICIAL IONIC CHANNELS IN CELL MEMBRANES AND BILAYERS (PCM-8109702)*; 12 MONTHS $83,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

LASCELLES, JUNE; *REGULATION OF TETRAPYRROLE SYNTHESIS AND ASSOCIATED COMPLEXES (PCM-7824301 A03)*; 12 MONTHS $36,400

GRALLA, JAY D; *RNA METABOLISM IN TUMOR VIRUS SV40 INFECTED CELLS (PCM-7805818 A02)*; 12 MONTHS $30,000

WEISS, RICHARD L; *AMINO ACID COMPARTMENTATION IN NEUROSPORA (PCM-7819090 A02)*; 12 MONTHS $37,000

ZABIN, IRVING; *CHARACTERIZATION AND PROPERTIES OF B-GALACTOSIDASE FUSION PROTEINS (PCM-7819974 A02)*; 12 MONTHS $35,000

GOLDBERG, ROBERT B; *GENOME ORGANIZATION AND EXPRESSION IN HIGHER PLANTS (PCM-7822321 A03)*; 12 MONTHS $77,767

CHAPMAN, DAVID J; *STEROL BIOSYNTHESIS IN PROKARYOTES (PCM-7825852 A01)*; 12 MONTHS $37,642

WILCOX, GARY L; *MOLECULAR BASIS OF CONTROL IN THE L-ARABINOSE SYSTEM (PCM-7826255 A02)*; 12 MONTHS $55,000

GONZALEZ, ELMA; *TOWARDS THE SYNTHESIS AND ASSEMBLY OF ORGANELLAR COMPONENTS IN THE CASTOR BEAN (PCM-7904377 A02)*; 12 MONTHS $54,366

MARTINSON, HAROLD G; *CHROMATIN STRUCTURE (PCM-7910654 A02)*; 12 MONTHS $110,000

COLLIER, ROBERT J; *ISOLATION AND NUCLEOTIDE SEQUENCING OF THE STRUCTURAL GENE FOR DIPHTHERIA TOXIN (PCM-7910684 A01)*; 12 MONTHS $55,000

TOBIN, ALLAN J, AND MARTINSON, HAROLD G; *GLOBIN GENE EXPRESSION IN ERYTHROID DEVELOPMENT (PCM-7921646 A01)*; 12 MONTHS $75,000

WEST, CHARLES A; *REGULATION OF ISOPRENOID BIOSYNTHESIS IN HIGHER PLANTS (PCM-7923142 A01)*; 12 MONTHS $57,165

SPENCE, M A; *A COMPUTER FOR GENETICS RESEARCH (PCM-8007290)*; 12 MONTHS $70,000

RITTENBERG, SYDNEY C; *THE PHYSIOLOGY AND BIOCHEMISTRY OF THE INTRAPERIPLASMIC GROWTH OF BDELLOVIBRIO BACTERIOVORUS (PCM-8013467)*; 12 MONTHS $84,000

GLITZ, DOHN G; *ANTI-HAPTEN ANTIBODIES AS PROBES OF RIBOSOME STRUCTURE (PCM-8016598 A01)*; 12 MONTHS $50,000

THORNBER, J PHILIP; *A SPECTROFLUOROMETER (PCM-8018336)*; 12 MONTHS $25,000

GORDON, MALCOLM S; *METABOLISM OF MARINE FISHES USING DIFFERENT METHODS OF SWIMMING (PCM-8020980)*; 24 MONTHS $74,000

EISERLING, FREDERICK A; *STRUCTURE AND ASSEMBLY OF LIGHT ENERGY TRANSDUCERS IN CYANOBACTERIA (PCM-8021363)*; 12 MONTHS $50,000

SCHUMAKER, VERNE N; *MOLECULAR FLEXIBILITY AND THE ACTIVATION OF COMPLEMENT (PCM-8021368)*; 12 MONTHS $37,000

PHINNEY, BERNARD O; *PHYSIOLOGY AND BIOCHEMISTRY OF GIBBERELLINS (PCM-8021588)*; 12 MONTHS $68,000

SZEGO, CLARA M; *LYSOSOMAL FUNCTION IN NUCLEOCYTOPLASMIC COMMUNICATION (PCM-8021829)*; 12 MONTHS $58,392

LENGYEL, JUDITH A; *ANALYSIS OF BLASTODERM-SPECIFIC GENES IN DROSOPHILA (PCM-8021830)*; 12 MONTHS $40,313

DISTEFANO, JOSEPH J; *IN VIVO IODOTHYRONINE INTERCONVERSION IN THE RAT (PCM-8022652)*; 12 MONTHS $50,000

LAKE, JAMES A; *RIBOSOME FUNCTION AND THREE DIMENSIONAL STRUCTURE (PCM-8023016)*; 12 MONTHS $72,000

ESKO, JEFFREY D; *MEMBRANE LIPID TURNOVER AND TRANSPORT IN ANIMAL CELLS (PCM-8023670)*; 24 MONTHS $90,000

BOYER, PAUL D; *ENERGY-TRANSDUCING MECHANISMS IN CONTRACTION AND ACTIVE TRANSPORT (PCM-8100817)*; 12 MONTHS $55,000

DICKERSON, RICHARD E, AND EISENBERG, DAVID S; *LOS ANGELES REGION BIOMOLECULAR COMPUTER GRAPHICS AND REFINEMENT FACILITY (PCM-8103195)*; 12 MONTHS $175,000

BOTTENSTEIN, JANE E; *HUMAN NEUROBLASTOMA CELL PROLIFERATION (PCM-8105419)*; 24 MONTHS $100,000

O'CONNOR, JOHN D; *EFFECTS OF MORPHOGENETIC HORMONES ON CULTURED CELLS (PCM-8109639)*; 12 MONTHS $55,000

STROUSE, CHARLES E; *MOLECULAR TRANSFORMATIONS IN THE SOLID STATE (CHE-8110285*)*; 12 MONTHS $20,000

DICKERSON, RICHARD E; *STRUCTURE AND CONTROL IN BIOLOGICAL MACROMOLECULES (PCM-8141389)*; 12 MONTHS $80,000

UNIVERSITY OF CALIFORNIA, RIVERSIDE

SEMANCIK, JOSEPH S; *SMALL PATHOGENIC RNA (VIROID) AND CELL REGULATION (PCM-7813622 A02)*; 12 MONTHS $44,000

NOLTMANN, ERNST A; *ROLE OF CARBONIC ANHYDRASE IN MUSCLE (PCM-7816095 A02)*; 12 MONTHS $30,000

SHERMAN, IRWIN W; *MEMBRANE STUDIES WITH MALARIAL PARASITES (PCM-7822126 A02)*; 12 MONTHS $57,704

CARROLL, EDWARD J; *FUNCTIONS OF EGG SURFACE ENVELOPES AND CORTICAL GRANULE EXUDATE IN FERTILIZATION (PCM-7822827 A01)*; 24 MONTHS $80,006

WEDDING, RANDOLPH T; *MALATE AS A CENTRAL POINT OF CONTROL FOR PLANT METABOLISM (PCM-7910449 A01)*; 12 MONTHS $41,260

SHANNON, LELAND M, AND HANKINS, CHARLES N; *BIOCHEMISTRY AND PHYSIOLOGY OF PLANT LECTINS (PCM-7910450 A02)*; 12 MONTHS $40,000

KARU, ALEXANDER E; *IMMUNO-BIOCHEMICAL STUDIES OF E. COLI RECBC ENZYME (PCM-7922987 A01)*; 12 MONTHS $54,000

THOMSON, WILLIAM W; *DEVELOPMENT, STRUCTURE, AND FUNCTION OF SALT GLANDS (PCM-8003779 A01)*; 12 MONTHS $45,000

DE MASON, DARLEEN A; *THE RELATIONSHIP BETWEEN PRIMARY AND SECONDARY STEM THICKENING GROWTH IN YUCCA WHIPPLEI (PCM-8021422)*; 24 MONTHS $65,000

LORD, ELIZABETH M; *DEVELOPMENT OF FLORAL FORM AND FUNCTION IN THE CLEISTOGAMOUS SPECIES COLLOMIA GRANDIFLORA DOUGL. EX LINDL. AND AN AUTOGAMOUS RELATIVE, C. LINEARIS NUTT. (POLEMONIACEAE) (PCM-8021645)*; 24 MONTHS $66,835

ERWIN, D C; *PHYTOPHTHORA: ITS BIOLOGY, ECOLOGY AND PATHOLOGY. INTERNATIONAL CONFERENCE TO BE HELD MARCH 31 - APRIL 4, 1981, UNIVERSITY OF CALIFORNIA, RIVERSIDE (PCM-8021711)*; 12 MONTHS $3,500

LEONARD, ROBERT T; *PHYSIOLOGY AND BIOCHEMISTRY OF ION TRANSPORT IN PLANT CELLS (PCM-8025004)*; 24 MONTHS $85,000

CAMPBELL, NEIL A, AND THOMSON, WILLIAM W; *STRUCTURAL AND PHYSIOLOGICAL ASPECTS OF LEAF MOVEMENTS (PCM-8106526)*; 18 MONTHS $28,935

DUNN, MICHAEL F; *THE INVESTIGATION OF ENZYME CATALYSIS: MECHANISM AT THE LEVEL OF SUBUNIT FUNCTION AND THE CHEMICAL TRANSFORMATION (PCM-8108862)*; 12 MONTHS $33,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCHOOL OF MEDICINE

ROSENFELD, MICHAEL G; *HORMONAL REGULATION OF PANCREATIC PROTEIN SYNTHESIS (PCM-7911505 A01)*; 12 MONTHS $70,000

BRUNTON, LAURENCE L; *COMPARTMENTATION OF CYCLIC AMP ACTION (PCM-8110116)*; 12 MONTHS $50,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

HAMMEL, HAROLD T; *OSMOREGULATORY RESPONSES TO ALTERED PLASMA CONCENTRATIONS (PCM-7823460 A02)*; 12 MONTHS $41,700

WHITE, FRED N; *CARDIORESPIRATORY REGULATION IN VERTEBRATES (PCM-7905052 A02)*; 12 MONTHS $87,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

HELINSKI, DONALD R; *ENHANCEMENT OF BIOLOGICAL NITROGEN FIXATION AND GENE TRANSFER VEHICLES FOR PLANTS (PCM-7724945 A03)*; 12 MONTHS $114,641

CHRISPEELS, MAARTEN J; *ROLE OF THE ENDOPLASMIC RETICULUM AND OF LONG-LIVED MRNA (PCM-7811083 A02)*; 12 MONTHS $61,560

ALLISON, WILLIAM S; *CROSS-LINKING OF MONO-NE-NITROARYL AZIDE DERIVATIVES OF CYTOCHROME C TO PROTEINS THAT PARTICIPATE IN ELECTRON TRANSFER REACTIONS WITH IT (PCM-7812467 A02)*; 12 MONTHS $25,000

FEHER, GEORGE, AND OKAMURA, MELVIN Y; *PRIMARY PROCESSES IN BACTERIAL PHOTOSYNTHESIS (PCM-7813699 A03)*; 12 MONTHS $98,000

FIRTEL, RICHARD A; *ANALYSIS OF DEVELOPMENTALLY REGULATED GENES IN DICTYOSTELIUM (PCM-7821773 A02)*; 12 MONTHS $50,000

INSEL, PAUL A; *REGULATION OF BETA-ADRENERGIC RECEPTORS AND RESPONSE (PCM-7823353 A03)*; 12 MONTHS $61,156

KYTE, JACK E; *CHEMICAL APPROACHES TO A DETERMINATION OF THE MOLECULAR STRUCTURE OF (NA,K) ADENOSINE TRIPHOSPHATASE (PCM-7824284 A02)*; 12 MONTHS $30,000

DELUCA, MARLENE; *CONVERSION OF CHEMICAL ENERGY INTO LIGHT ENERGY BY BIOLOGICAL SYSTEMS (PCM-7836221 A01)*; 12 MONTHS $59,109

LOOMIS, WILLIAM F; *GENETIC REGULATION OF DEVELOPMENT IN DICTYOSTELIUM (PCM-7902698 A02)*; 12 MONTHS $56,000

BUTLER, WARREN L; *PHOTOCHEMICAL MECHANISMS OF PHOTOSYNTHESIS (PCM-7903987 A02)*; 12 MONTHS $80,000

HELINSKI, DONALD R; *DUPLICATION OF CIRCULAR GENETIC ELEMENTS (PCM-7904635 A02)*; 12 MONTHS $85,000

WILLS, CHRISTOPH J; *FUNCTIONAL ALTERATIONS IN YEAST ALCOHOL DEHYDROGENASE (PCM-7905629 A02)*; 12 MONTHS $40,000

KEARNS, DAVID R; *STRUCTURAL AND DYNAMIC PROPERTIES OF NATURAL AND SYNTHETIC DNA'S (PCM-7911571 A01)*; 12 MONTHS $59,999

KRAUT, JOSEPH, AND POULOS, THOMAS L; *THREE-DIMENSIONAL STRUCTURE AND FUNCTION OF ELECTRON TRANSPORT ENZYMES (PCM-7914595 A02)*; 12 MONTHS $60,000

DENNIS, EDWARD A; *PHOSPHOLIPASE A2 AND MIXED MICELLES OF PHOSPHOLIPID AND SURFACTANT (PCM-7922839 A01)*; 12 MONTHS $36,000

SOMERO, GEORGE N; *PRESSURE, TEMPERATURE AND SOLUTE EFFECTS ON PROTEIN ASSEMBLY AND ENZYMATIC CATALYSIS: A MECHANISTIC AND EVOLUTIONARY ANALYSIS (PCM-8001949 A01)*; 12 MONTHS $42,000

GOULD-SOMERO, MEREDITH; *MECHANISM IN POLYSPERMY PREVENTION AND EGG ACTIVATION (PCM-8003759 A01)*; 12 MONTHS $70,000

SCHULTZ, SHELDON, AND FEHER, GEORGE; *EXPERIMENTAL SOLID STATE RESEARCH (DMR-8007969*)*; 11 MONTHS $20,000

HAYASHI, MASAKI; *TEMPLATE ACTIVITIES OF INTRACELLULAR BACTERIOPHAGE DNA (PCM-8011741)*; 12 MONTHS $60,000

HOWELL, STEPHEN H; *MUTATIONAL ANALYSIS OF A POTENTIAL PLANT VEHICLE (PCM-8011779)*; 12 MONTHS $63,280

GEIDUSCHEK, E PETER; *STUDIES ON TRANSCRIPTIONAL REGULATION (PCM-8021648)*; 12 MONTHS $56,200

NGUYEN-HUU, XUONG; *LOW TEMPERATURE PROTEIN CRYSTALLOGRAPHY (PCM-8021653)*; 12 MONTHS $45,000

SPECTOR, DEBORAH H; *MOLECULAR BIOLOGY OF MURINE CYTOMEGALOVIRUS (PCM-8022061)*; 12 MONTHS $45,000

NGUYEN-HUU, XUONG; *ACQUISITION OF COMPUTER CONTROL FOR THE MULTIWIRE AREA DETECTOR DIFFRACTOMETER (PCM-8100302)*; 12 MONTHS $75,000

STERN, HERBERT; *REGULATORY MECHANISMS IN MEIOSIS (PCM-8104123)*; 12 MONTHS $100,000

KRAUT, JOSEPH; *ACQUISITION OF BIOMEDICAL RESEARCH EQUIPMENT (PCM-8104308)*; 12 MONTHS $28,000

SIMON, MELVIN I; *TOXIN RESISTANCE IN MAMMALIAN CELLS (PCM-8107191)*; 12 MONTHS $56,000

SCHEFFLER, IMMO E; *GENETICS AND BIOCHEMISTRY OF RESPIRATION-DEFICIENT CHINESE HAMSTER CELLS (PCM-8109693)*; 12 MONTHS $60,000

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO-SCHOOL OF MEDICINE

ZAKIM, DAVID; *REGULATION OF MICROSOMAL ENZYMES BY PHOSPHOLIPIDS (PCM-7817706 A02)*; 12 MONTHS $49,842

HAYASHIDA, TETSUO; *COMPARATIVE IMMUNOCHEMICAL AND BIOLOGICAL STUDIES WITH PITUITARY GROWTH HORMONE AND PROLACTIN (PCM-7826205 A02)*; 12 MONTHS $48,700

STEENKAMP, DANIEL J; *MECHANISM AND BIOSYNTHESIS OF TRIMETHYLAMINE AND DIMETHYLAMINE DEHYDROGENASES (PCM-8022644)*; 24 MONTHS $65,000

KENNEY, WILLIAM C; *MODIFIED FLAVINS AND OTHER NOVEL COFACTORS IN ENZYME FUNCTION (PCM-8108283)*; 12 MONTHS $32,000

KEARNEY, EDNA B, AND CECCHINI, GARY; *RIBOFLAVIN TRANSPORT, METABOLISM, CONVERSION TO COVALENTLY BOUND FLAVIN (PCM-8110585*)*; 24 MONTHS $85,000

CALARCO, PATRICIA G; *STAGE-SPECIFIC SURFACE ANTIGENS OF THE PREIMPLANTATION MOUSE EMBRYO (PCM-8115940)*; 12 MONTHS $60,000

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

COFFINO, PHILIP, AND BOURNE, HENRY R; *GROWTH REGULATION BY CYCLIC AMP (PCM-7807382 A03)*; 12 MONTHS $110,000

CORDELL, BARBARA, AND GOODMAN, HOWARD M; *EUKARYOTIC TRNA GENES: STRUCTURE, BIOSYNTHESIS AND SUPPRESSION (PCM-7808950 A02)*; 12 MONTHS $46,000

KEARNEY, EDNA B; *RIBOFLAVIN TRANSPORT, METABOLISM, AND CONVERSION TO COVALENTLY BOUND FLAVIN (PCM-7822935 A02)*; 12 MONTHS $33,000

SINGER, THOMAS P; *STRUCTURE, REGULATION, AND MECHANISM OF ACTION OF MITOCHONDRIAL ENZYMES (PCM-7823716 A09)*; 12 MONTHS $42,000

O'FARRELL, PATRICK H; *MOLECULAR ANALYSIS OF DEVELOPMENTAL MUTATIONS (PCM-7925677 A02)*; 12 MONTHS $66,000

SEDAT, JOHN W; *MONOCLONAL ANTIBODY LIBRARY TO DROSOPHILA NUCLEAR PROTEINS (PCM-7905761 A02)*; 12 MONTHS $100,000

MARTIN, DAVID W; *MODELS FOR INHERITED PURINE AND IMMUNE DISORDERS (PCM-7930358 A01)*; 12 MONTHS $40,000

MORALES, MANUEL F; *STUDIES OF CONTRACTILE SYSTEMS (PCM-7922174)*; 12 MONTHS $86,500

LAN, NANCY T Y, AND BAXTER, JOHN D; *MECHANISMS OF GLUCOCORTICOID RECEPTOR FUNCTION (PCM-8004735 A01)*; 12 MONTHS $55,000

STROUD, ROBERT M; *PROTEIN-LIPID AND PROTEIN-NUCLEIC ACID INTERACTIONS (PCM-8021433)*; 12 MONTHS $75,000

MARTINEZ, HUGO M; *COMPUTER-AIDED ANALYSIS IN MOLECULAR GENETICS (PCM-8022006)*; 24 MONTHS $99,991

RAMSAY, DAVID J; *OROPHARYNGEAL MECHANISMS INVOLVED IN SATIATION OF THIRST AND CONTROL OF VASOPRESSIN SECRETION (PCM-8110816)*; 12 MONTHS $32,990

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

TRENCH, ROBERT K; *INTERCELLULAR RECOGNITION PHENOMENA AND THEIR ROLE IN ESTABLISHING SPECIFICITY IN MUTUALISTIC INTRACELLULAR SYMBIOSES (PCM-7815209 A02)*; 12 MONTHS $35,001

CANNELL, DAVID S, AND PURICH, DANIEL L; *DIFFERENTIAL LASER PROBE OF CONFORMATIONAL CHANGES (PCM-7911008 A01)*; 12 MONTHS $38,000

SWEENEY, BEATRICE M; *A STUDY OF BIOLOGICAL CLOCKS USING A UNICELLULAR MODEL SYSTEM (PCM-8001940)*; 24 MONTHS $60,002

BRUICE, THOMAS C; *COFACTOR CATALYZED REACTIONS (PCM-8004816 A01)*; 12 MONTHS $45,000

HOLMES, WILLIAM N; *EFFECTS OF TOXIC METABOLITES DERIVED FROM INGESTED PETROLEUM ON SOME HORMONAL REGULATING MECHANISMS IN SEABIRDS (PCM-8007865 A01*)*; 12 MONTHS $54,465

TABORSKY, GEORGE; *PRIMARY STRUCTURAL STUDIES OF PHOSVITINS (PCM-8011469)*; 12 MONTHS $47,000

ENGLESBERG, ELLIS; *GENETICS OF MAMMALIAN CELLS (PCM-8101983)*; 24 MONTHS $85,589

REED, STEVEN I; *GENETIC ANALYSIS OF THE CONTROL OF CELL DIVISION IN YEAST (PCM-8102308)*; 12 MONTHS $40,051

COLLINS, PETER M; *SEXUAL DEVELOPMENT IN PRIMITIVE PRIMATES (PCM-8104108)*; 12 MONTHS $60,000

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

BEEVERS, HARRY; *ASPECTS OF PLANT METABOLISM (PCM-7819575 A02)*; 12 MONTHS $80,400

FINK, ANTHONY L; *LOW-TEMPERATURE TRAPPING OF INTERMEDIATES IN ENZYME-CATALYZED REACTIONS (PCM-7822892 A02)*; 12 MONTHS $35,000

FINK, ANTHONY L; *PROTEIN STRUCTURE AND FOLDING AT LOW TEMPERATURES (PCM-7913766 A01)*; $37,500

TAIZ, LINCOLN; *REGULATION OF CELL EXPANSION IN PLANTS (PCM-8001168 A01)*; 12 MONTHS $60,394

THIMANN, KENNETH V; *BIOCHEMICAL CHANGES DURING LEAF SENESCENCE (PCM-8021584)*; 12 MONTHS $45,693

LUDWIG, ROBERT A; *GENETICS OF RHIZOBIUM-LEGUMINOUS PLANT SYMBIOTIC NITROGEN FIXATION (PCM-8021591)*; 12 MONTHS $60,000

FINK, ANTHONY L; *LOW-TEMPERATURE TRAPPING OF INTERMEDIATES IN ENZYMECATALYZED REACTIONS (PCM-8110073)*; 12 MONTHS $45,000

UNIVERSITY OF SAN FRANCISCO

COBLEY, JOHN G; *REGULATION OF PHYCOBILISOME SYNTHESIS IN THE CHROMATICALLYADAPTING CYANOBACTERIUM, FREMYELLA DIPLOSIPHON (PCM-7816096 A03)*; 24 MONTHS $25,000

CHIHARA, CAROL J; *DEVELOPMENTAL GENETICS OF DROSOPHILA CUTICLE PROTEINS (PCM-7822516 A02)*; 12 MONTHS $29,433

SCHULZ, PATRICIA J, SCHOOLEY, ROBERT A, CHIEN, PAUL K, CHIHARA, CAROL J, AND COBLEY, JONATHAN G; *ACQUISITION OF AN ELECTRON MICROSCOPE (PCM-8018484)*; 12 MONTHS $10,000

UNIVERSITY OF SOUTHERN CALIFORNIA-SCHOOL OF MEDICINE

STOHLMAN, STEPHEN A; *MOLECULAR BIOLOGY OF CORONAVIRUSES (PCM-8110372)*; 12 MONTHS $34,000

UNIVERSITY OF SOUTHERN CALIFORNIA

STEPHENS, PHILIP J, AND MCKENNA, CHARLES E; *CHIROPTICAL SPECTROSCOPY OF NITROGENASE (PCM-7717637 A04)*; 4 MONTHS $16,863

TSUJI, FREDERICK I; *BIOCHEMICAL STUDIES OF BIOLUMINESCENCE (PCM-7921658 A01)*; 12 MONTHS $40,000

TSUJI, FREDERICK I; *BIOCHEMICAL STUDIES OF BIOLUMINESCENCE (PCM-7921658 A02)*; $5,000

ZOECON CORPORATION

SCHOOLEY, DAVID A; *INSECT JUVENILE HORMONES - PHYSIOLOGICAL TITERS, BIOSYNTHESIS AND REGULATION, AND A SEARCH FOR A NEW HORMONE (PCM-8012027 A01)*; 12 MONTHS $122,000

CANADA

UNIVERSITY OF SASKATCHEWAN

HAYES, SIDNEY J; *GENETIC BASIS OF BOTULISM PHAGE TOXICITY (PCM-8106893)*; 24 MONTHS $38,100

COLORADO

ASPEN CENTER FOR PHYSICS

ABRAHAMS, ELIHU, CRONIN, JAMES W, ANDERSON, PHILIP W, AND CARRUTHERS, PETER A; *SUMMER WORKSHOP ON CRITICAL PROBLEMS IN PHYSICS AND ASTROPHYSICS (PHY-8107358*)*; 12 MONTHS $5,000

COLORADO STATE UNIVERSITY

ROSS, CLEON W; *ASPECTS OF CYTOKININ-INDUCED GROWTH OF EXCISED COTYLEDONS (PCM-7922139)*; 24 MONTHS $80,000

RALPH, CHARLES L; *PINEAL COMPLEX AND THERMOREGULATION (PCM-8003835 A01)*; 12 MONTHS $43,000

PAULE, MARVIN R; *ACQUISITION OF A SCINTILLATION COUNTER (PCM-8018512)*; 12 MONTHS $20,000

RANU, RAJINDER S; *REGULATION OF PROTEIN SYNTHESIS BY DOUBLE STRANDED RNA (PCM-8021969)*; 24 MONTHS $65,000

BARISAS, B GEORGE; *LATERAL AND ROTATIONAL DYNAMICS OF MEMBRANE COMPONENTS (PCM-8111385)*; 12 MONTHS $82,054

NATIONAL JEWISH HOSPITAL & RESEARCH CENTER

HAROLD, FRANKLIN M; *ION CURRENTS AND GROWTH IN EUKARYOTIC MICROORGANISMS (PCM-8009439*)*; 12 MONTHS $73,650

UNIVERSITY OF COLORADO AT BOULDER

RUNNER, MEREDITH N; *INFORMATION RETRIEVAL DURING MORPHOGENESIS OF THE MOUSE LIMB BUD (PCM-7815986 A02)*; 12 MONTHS $34,185

SOLL, LARRY J; *INITIATION OF DNA REPLICATION (PCM-7823225 A01)*; 12 MONTHS $57,000

FALL, R R; *STRUCTURE AND FUNCTION IN BIOTIN ENZYMES (PCM-7825518 A02)*; 12 MONTHS $20,000

SUEOKA, NOBORU; *STRUCTURE OF THE REPLICATION ORIGIN OF BACILLUS SUBTILIS CHROMOSOME (PCM-8011549 A01)*; 12 MONTHS $40,000

MC INTOSH, J RICHARD; *STUDIES ON THE FORMATION AND FUNCTION OF THE MITOTIC SPINDLE (PCM-8014549 A01)*; 12 MONTHS $55,000

PICKETT-HEAPS, JEREMY D; *UV-MICROBEAM EXPERIMENTS ON THE DIATOM SPINDLE (PCM-8019707)*; 24 MONTHS $45,445

WYMAN, JEFFRIES; *LIGAND BINDING BY BIOLOGICAL MACROMOLECULES (PCM-8019930)*; 12 MONTHS $34,000

KANO-SUEOKA, TAMIKO; *REGULATION OF CELL PROLIFERATION AND PHOSPHOETHANOLAMINE (PCM-8104480)*; 12 MONTHS $50,000

UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER

ROBERTS, WALDEN K; *MECHANISM OF ACTION OF A TRANSLATIONAL INHIBITOR FROM WHEAT GERM (PCM-7810353 A01)*; 4 MONTHS $7,500

PETTIJOHN, DAVID E; *ROLE OF SPECIFIC NON-HISTONE CHROMOSOMAL PROTEINS IN CHROMOSOME STRUCTURE (PCM-7921406 A01)*; 12 MONTHS $45,000

CONNECTICUT

SOCIETY OF GENERAL PHYSIOLOGISTS

TWAROG, BETTY M; *BASIC BIOLOGY OF MUSCLES: A COMPARATIVE APPROACH (SYMPOSIUM): SEPT. 10-13-1981 MARINE BIOLOGICAL LABORATORY, WOODS HOLE, MA. (PCM-8021977)*; 12 MONTHS $6,600

UNIVERSITY OF CONNECTICUT

GOULD, STEVEN J; *STEREOCHEMISTRY OF SPERMIDINE BIOSYNTHESIS (PCM-7615197 A02)*; 7 MONTHS $6,000

GLASEL, JAY A; *NEUROACTIVE AND CHEMOTACTIC PEPTIDES AND THEIR ASSOCIATED PROTEINS (PCM-7808543 A02)*; 12 MONTHS $35,000

SCHUSTER, TODD M, AND PHILO, JOHN S; *HEMEPROTEINS: STATIC AND RAPID KINETIC MAGNETIC STUDIES (PCM-7903964 A02)*; $9,750

SCHUSTER, TODD M, AND PHILO, JOHN S; *HEMEPROTEINS: STATIC AND RAPID KINETIC MAGNETIC STUDIES (PCM-7903964 A03)*; 12 MONTHS $65,000

KOSHER, ROBERT A; *STUDIES ON LIMB DEVELOPMENT (PCM-7925907 A01)*; 12 MONTHS $50,848

ROBINSON, KENNETH R; *IONIC AND ELECTRICAL CONTROL OF CELLULAR POLARITY (PCM-7926715 A01)*; 12 MONTHS $42,800

PILAR, GUILLERMO R; *RENAL DIVALENT ION TRANSPORT PROCESSES IN A MARINE TELEOST (PCM-8003952 A01)*; 12 MONTHS $27,184

WEBSTER, TERRY R; *VARIEGATION IN SELAGINELLA MARTENSII: INHERITANCE AND CHLOROPLAST ULTRASTRUCTURE (PCM-8011744)*; 12 MONTHS $37,402

SATTER, RUTH L; *MECHANISMS OF LIGHT-CLOCK INTERACTION IN PLANT CELLS (PCM-8021623)*; 24 MONTHS $122,456

MARCUS, PHILIP I; *GENETIC CLONING OF DEFECTIVE-INTERFERING VIRUS PARTICLES (PCM-8021882)*; 24 MONTHS $60,000

PHILLIPS, ALVAH H; *TURNOVER OF INTRACELLULAR MEMBRANES AND ITS ROLE IN SECRETION (PCM-8022071)*; 12 MONTHS $58,606

CLARK, NANCY B; *PARATHYROID STRUCTURE AND FUNCTION (PCM-8104037)*; 12 MONTHS $61,945

BERG, CLAIRE M; *TRANSPOSONS: RESEARCH TOOLS (PCM-8104660)*; 60 MONTHS $20,000

SCHUSTER, TODD M; *APPLICATIONS OF MAGNETIC MEASUREMENTS TO HEMOGLOBIN (PCM-8111320)*; 12 MONTHS $49,000

YPHANTIS, DAVID A; *ULTRACENTRIFUGAL APPROACHES FOR INTERACTINC MACROMOLECULES (PCM-8111484)*; 12 MONTHS $90,000

UNIVERSITY OF CONNECTICUT HEALTH CENTER

BRONNER, FELIX; *CALCIUM TRANSPORT BY RAT INTESTINAL MEMBRANE VESICLES (PCM-7813366 A02)*; 12 MONTHS $71,360

WESLEYAN UNIVERSITY

ALLEWELL, NORMA M; *CALORIMETRIC ANALYSIS OF LIGAND BINDING AND SUBUNIT INTERACTIONS IN BOVINE NEUROPHYSIN (PCM-7920673 A01)*; 12 MONTHS $20,000

FIRSHEIN, WILLIAM; *A FUNCTIONAL COMPLEX IN PLASMID DNA REPLICATION: GENETIC AND MOLECULAR ANALYSIS (PCM-8110082)*; 24 MONTHS $80,000

YALE UNIVERSITY-SCHOOL OF MEDICINE

WEINER, ALAN M; *GENE ORGANIZATION AND TRANSCRIPTION OF SMALL RNA SPECIES (PCM-7821799 A02)*; 12 MONTHS $50,000

ADELBERG, EDWARD A; *GENETICS OF MEMBRANE TRANSPORT IN MAMMALIAN CELLS (PCM-7826751 A02)*; 12 MONTHS $80,000

STEITZ, JOAN A; *RNA-PROTEIN INTERACTIONS IN THE CELL NUCLEUS (PCM-7909291 A02)*; 12 MONTHS $40,000

COLEMAN, JOSEPH E, AND ARMITAGE, IAN M; *ELECTRONIC AND MAGNETIC PROPERTIES OF MACROMOLECULES (PCM-7912269 A01)*; 12 MONTHS $33,402

SLAYMAN, CLIFFORD L; *DIRECT ELECTRICAL STUDIES ON ENERGY-COUPLING AND TRANSPORT IN GIANT ESCHERICHIA COLI (PCM-7913412 A01)*; 12 MONTHS $72,727

SIMMONDS, SOFIA; *ROLE OF PEPTIDASES IN MICROBIAL PROTEIN METABOLISM (PCM-8011347)*; 24 MONTHS $78,800

KONIGSBERG, WILLIAM H; *ACQUISITION OF A PROTEIN CHEMISTRY FACILITY (PCM-8018683)*; 12 MONTHS $65,000

COLE, CHARLES N; *CONTROL OF TUMOR VIRUS GENE EXPRESSION (PCM-8021805)*; 12 MONTHS $55,000

WILLIAMS, KENNETH R; *STRUCTURE OF THE BACTERIOPHAGE T4 DNA REPLICATION COMPLEX (PCM-8104118)*; 24 MONTHS $80,000

YALE UNIVERSITY

ENGELMAN, DONALD M, AND MOORE, PETER B; *NEUTRON DIFFRACTION STUDIES OF QUATERNARY STRUCTURE (PCM-7810361 A03)*; 12 MONTHS $80,000

SOLL, DIETER G; *STRUCTURE OF EUKARYOTIC TRNA GENES AND TRNA BIOSYNTHESIS IN EUKARYOTES (PCM-7818541 A02)*; 12 MONTHS $60,000

CROTHERS, DONALD M; *PHYSICAL STUDIES OF NUCLEIC ACID STRUCTURE AND INTERACTION SPECIFICITY (PCM-7820037 A02)*; 12 MONTHS $39,999

PRESTEGARD, JAMES H; *MOLECULAR INTERACTIONS IN FATTY ACID BIOSYNTHESIS (PCM-7821101 A02)*; 12 MONTHS $50,000

STURTEVANT, JULIAN M; *THE THERMODYNAMICS OF BIOCHEMICAL AND BIOLOGICAL PROCESSES (PCM-7824107 A01)*; 12 MONTHS $40,000

ALTMAN, SIDNEY; *RIBONUCLEASE P AND OTHER RIBONUCLEOPROTEINS (PCM-7904054 A02)*; 12 MONTHS $50,000

MARKERT, CLEMENT L; *PRODUCTION OF HOMOZYGOUS MAMMALS BY MICROSURGERY ON EGGS (PCM-7910054 A01)*; 6 MONTHS $6,665

CONE, ROBERT E; *MOLECULAR BASIS OF T LYMPHOCYTE RECOGNITION (PCM-7921779 A01)*; 12 MONTHS $45,035

COLSON, STEVEN D, AND CROTHERS, DONALD M; *EXCITED STATE PROPERTIES OF NUCLEOSIDE ANALOGS (PCM-8006989 A01)*; 12 MONTHS $46,071

RICHARDS, FREDERIC M; *STRUCTURE AND MOTION IN PROTEINS AND CELL ORGANELLES (PCM-8013044)*; 12 MONTHS $175,000

SHULMAN, ROBERT G; *NMR STUDIES OF YEAST CELLS AND SPORES (PCM-8021715*)*; 12 MONTHS $142,000

ROSENBAUM, JOEL L; *MICROTUBULE-ASSOCIATED-PROTEINS/MAPS) (PCM-8104165)*; 12 MONTHS $60,000

SUSSEX, IAN M; *HORMONE RECEPTORS IN DEVELOPING CORN EMBRYOS (PCM-8110355)*; 24 MONTHS $100,000

STEITZ, THOMAS A; *STRUCTURAL BASIS OF MOLECULAR MECHANISM OF CELLULAR CONTROL (PCM-8110880)*; 12 MONTHS $70,000

DELAWARE

UNIVERSITY OF DELAWARE

WHITE, HAROLD B; *BIOTIN-BINDING PROTEIN: STRUCTURE AND FUNCTION (PCM-7920683 A01)*; 12 MONTHS $47,000

COLMAN, ROBERTA F; *AFFINITY LABELING OF PURINE NUCLEOTIDE SITES IN PROTEINS (PCM-8021572)*; 24 MONTHS $120,000

STETSON, MILTON H; *PHOTO-NEURO-ENDOCRINE INTERACTIONS IN THE REGULATION OF REPRODUCTION (PCM-8111384)*; 12 MONTHS $79,000

DISTRICT OF COLUMBIA

AMERICAN SOCIETY FOR MICROBIOLOGY

HOUSEWRIGHT, RILEY D; *WORKSHOP ON OPPORTUNITIES IN MICROBIOLOGICAL RESEARCH: O'HARE HILTON, CHICAGO, ILLINOIS, SEPTEMBER 20-21, 1981 (PCM-8026696*)*; 12 MONTHS $8,700

CARNEGIE INSTITUTION OF WASHINGTON

FEDOROFF, NINA V; *MOLECULAR BIOLOGY OF THE SUPPRESSOR-MUTATOR CONTROLLING ELEMENT SYSTEM IN MAIZE (PCM-7911243 A02)*; 12 MONTHS $70,369

THOMPSON, WILLIAM F; *TRANSCRIPTION OF CHLOROPLAST DNA DURING CHLOROPLAST DEVELOPMENT (PCM-8109795)*; 12 MONTHS $75,000

GEORGE WASHINGTON UNIVERSITY-MEDICAL CENTER

VAHOUNY, GEORGE V; *ROLE OF CHOLESTEROL ESTERS IN HORMONE PRODUCTION (PCM-7903268 A02)*; 12 MONTHS $27,734

BLOOM, SHERMAN; *COMPLIANCE LIMITATION BY SURFACE CABLES OF CARDIAC MYOCYTES (PCM-8020968)*; 24 MONTHS $100,000

GEORGETOWN UNIVERSITY

MAC GREGOR, CAROLYN H; *ASSEMBLY AND REGULATION OF AN INTEGRAL MEMBRANE PROTEIN (PCM-7920680 A01)*; 12 MONTHS $35,000

NISHIOKA, DAVID J; *THE EFFECTS OF INTRACELLULAR PH ON THE SYNTHESIS OF DNA IN FERTILIZED SEA URCHIN EGGS (PCM-7924687 A01)*; 12 MONTHS $23,993

GEORGETOWN UNIVERSITY-SCHOOL OF MEDICINE

KASBEKAR, DINKAR K; *CYTOSKELETAL ELEMENTS AND GASTRIC OXYNTIC CELL SECRETION (PCM-8114897)*; 12 MONTHS $38,919

NOONAN, NORINE E; *BIOGENESIS OF THE NUCLEAR ENVELOPE (PCM-8118590)*; 12 MONTHS $64,700

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

MORGAN, COUNCILMA; *PARTIAL SUPPORT OF THE INSTITUTE OF LABORATORY ANIMAL RESOURCES (PCM-8019238)*; 12 MONTHS $28,000

FLORIDA

FLORIDA INSTITUTE OF TECHNOLOGY

PIERCE, RICHARD H; *THE CHEMISTRY AND NUTRITIONAL VALUE OF SHRIMP REARED IN AN AQUACULTURE-WASTEWATER SYSTEM (PCM-8023060)*; 24 MONTHS $90,020

FLORIDA STATE UNIVERSITY

HOMANN, PETER H; *STACKED AND UNSTACKED THYLAKOIDS IN THE CHLOROPLASTS OF GREEN PLANTS (PCM-8011755)*; 24 MONTHS $109,180

TSCHINKEL, WALTER R; *SOCIAL REGULATION OF FERTILITY IN THE FIRE ANT QUEEN (PCM-8022077)*; 12 MONTHS $39,000

ELLINGTON, WILLIAM R; *METABOLIC RESPONSES OF A SEA ANEMONE TO HYPOXIA (PCM-8114602)*; 12 MONTHS $2,890

OUTLAW, WILLIAM H; *BIOCHEMISTRY OF GUARD CELLS: REGULATION OF STOMATAL APERTURE (PCM-8140588*)*; 15 MONTHS $50,500

PAPANICOLAOU CANCER RESEARCH INSTITUTE

KOHEN, ELLI; *MICROSPECTROFLUOROMETRIC STUDY OF ENZYME-SUBSTRATE REACTIONS (PCM-7708549 A03)*; 12 MONTHS $28,400

MELOCHE, H; *STEREOCHEMICAL ASPECTS OF PYRUVATE-SPECIFIC ALDOLASES (PCM-7911565 A02)*; 12 MONTHS $35,000

UNIVERSITY OF FLORIDA-AGRICULTURAL EXPERIMENTAL STATION

FIELDS, MICHAEL J; *BOVINE RELAXIN - ORIGIN AND SECRETION (PCM-8110062)*; 12 MONTHS $63,000

UNIVERSITY OF FLORIDA-COLLEGE OF MEDICINE

FLANEGAN, JAMES B; *MOLECULAR BIOLOGY OF POLIOVIRUS RNA REPLICATION (PCM-7813225 A02)*; 12 MONTHS $35,000

HAUSWIRTH, WILLIAM W, LAIPIS, PHILIP J, AND OBRIEN, THOMAS W; *GENETIC VARIATION IN MAMMALIAN MITOCHONDRIAL DNA (PCM-7833221 A02)*; 12 MONTHS $50,000

DUCKWORTH, DONNA H; *INTERACTIONS AMONG MICROBIAL ELEMENTS INVOLVING THE BACTERIAL CELL SURFACE (PCM-7904741 A02)*; 12 MONTHS $35,000

FELDHERR, CARL M; *ENDOGENOUS PROTEIN EXCHANGES ACROSS THE NUCLEAR ENVELOPE (PCM-8003697 A01)*; 12 MONTHS $40,000

MUZYCZKA, NICHOLAS; *CONSTRUCTION OF NON-SENSE MUTANTS IN THE EARLY REGION OF SV40 (PCM-8011251)*; 24 MONTHS $109,998

COHEN, ROBERT J; *ROLE OF CYCLIC NUCLEOTIDES IN THE RESPONSE SYSTEM OF PHYCOMYCES BLAKESLEEANUS (PCM-8017665)*; 12 MONTHS $35,000

STEIN, GARY S, AND STEIN, JANET L; *CONTROL OF HISTONE GENE EXPRESSION IN MAMMALIAN CELLS (PCM-8018075 A01)*; 12 MONTHS $50,000

ROBERTS, R MICHAEL; *CONTROL OF PLASMA MEMBRANE POLYPEPTIDE TURNOVER (PCM-8104071)*; 12 MONTHS $38,000

CREWS, FULTON T; *MOLECULAR MECHANISMS OF SECRETION (PCM-8104379)*; 24 MONTHS $65,000

UNIVERSITY OF FLORIDA

KIRK, JAMES R; *ASSESSMENT OF TOXICOLOGICAL HAZARDS FROM CHLORO-ORGANICS FORMED IN FOODS (PCM-7827067 A02)*; 12 MONTHS $84,319

SHIREMAN, RACHEL; *CHARACTERIZATION OF THE TRANSFER OF VARIOUS HYDROPHOBIC COMPOUNDS INTO CELLS (PCM-8103263)*; 12 MONTHS $50,000

EVANS, DAVID H; *CELLULAR MECHANISMS OF IONIC EXCHANGE IN MARINE ORGANISMS (PCM-8104046)*; 24 MONTHS $90,000

GREENBERG, MICHAEL J; *OSMOTIC AND IONIC REGULATION IN THE FRESHWATER FOULING AGENT, LIMNOPERNA FORTUNEI (PCM-8107943)*; 12 MONTHS $13,160

LAWRENCE, PAULINE O; *HOST HORMONAL INFLUENCE ON ENDOPARASITIC DEVELOPMENT (PCM-8110845*)*; 24 MONTHS $80,000

SIDEN, EDWARD J; *IMMUNOGLOBULIN GENE EXPRESSION IN NORMAL AND TRANSFORMED EMBRYONIC MOUSE CELLS (PCM-8110978)*; 24 MONTHS $105,000

UNIVERSITY OF MIAMI-SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

LUTZ, PETER L; *THE RESPIRATORY PHYSIOLOGY OF MARINE TURTLES (PCM-8021990)*; 24 MONTHS $71,962

UNIVERSITY OF MIAMI-SCHOOL OF MEDICINE

RUBIN, ROBERT W; *IS ALL SURFACE TUBULIN RESPONSIBLE FOR DIFFERENTIAL RESPONSES OF CELLS TO VINCA ALKALOIDS (PCM-8017406)*; 24 MONTHS $129,397

WERNER, RUDOLF K; *STRUCTURE AND FUNCTION OF GAP JUNCTION GENES (PCM-8019929)*; 24 MONTHS $59,961

UNIVERSITY OF MIAMI

CLEGG, JAMES S; *INTERRELATIONSHIPS BETWEEN WATER AND CELLULAR METABOLISM (PCM-7925609 A01)*; 12 MONTHS $31,421

MALLERY, CHARLES H; *REGULATION OF CHLORIDE/BICARBONATE EXCHANGE IN FISH GILLS (PCM-8021971)*; 24 MONTHS $64,130

CARRAWAY, KERMIT L; *STRUCTURE, SHEDDING AND BIOSYNTHESIS OF A MUCIN-TYPE CELL SURFACE GLYCOPROTEIN (PCM-8140969)*; 12 MONTHS $18,665

UNIVERSITY OF SOUTH FLORIDA

MICHAELS, ALLAN; *HYBRIDIZATION-SELECTION OF THYLAKOID-PROTEIN MRNA AND THE REGULATION OF CHLOROPLAST GENE EXPRESSION IN CHLAMYDOMONAS REINHARDTII (PCM-8022647)*; 12 MONTHS $46,000

WILLIAMS, MARVIN T, SOLOMONSON, LARRY P, CORY, JOSEPH G, NESS, GENE, AND RODRICK, GARY E; *ACQUISITION OF A SPECTROPHOTOMETER (PCM-8100315)*; 12 MONTHS $35,000

GEORGIA

EMORY UNIVERSITY

NUTTALL, ROBERT P; *MOTILITY, BEHAVIOR, AND CONTACT INTERACTIONS IN CULTURED EMBRYONIC NEURONS (PCM-7926681 A01)*; 12 MONTHS $35,465

EDMONDSON, DALE E; *STRUCTURE AND ROLE OF COVALENT PHOSPHORUS RESIDUES IN AZOTOBACTER FLAVODOXIN (PCM-8100770*)*; 18 MONTHS $60,000

HUYNH, BOI HANH; *MOSSBAUER AND ENDOR STUDIES OF HYDROGENASE, NITRITE REDUCTASE AND SULFITE REDUCTASE (PCM-8108092)*; 24 MONTHS $110,000

EMORY UNIVERSITY-SCHOOL OF MEDICINE

BAUMSTARK, BARBARA R; *INTERACTION OF THE PLCL REPRESSOR WITH P1 DNA (PCM-8009355)*; 36 MONTHS $45,000

GEORGIA STATE UNIVERSITY

ABDELAL, AHMED T; *REGULATION OF CARBAMYLPHOSPHATE SYNTHESIS IN MICROORGANISMS (PCM-8016600 A01)*; 12 MONTHS $50,000

VICKERS, LELAND P; *PURCHASE OF FERMENTATION EQUIPMENT (PCM-8100268)*; 12 MONTHS $50,000

MEDICAL COLLEGE OF GEORGIA

HOWARD, EUGENE F; *SMALL MOLECULAR WEIGHT NUCLEAR RNA (PCM-7918339 A01)*; 12 MONTHS $30,000

WILSON, JOHN T; *STRUCTURAL ANALYSIS OF HUMAN -ANTITRYPSIN GENE (PCM-8021407)*; 12 MONTHS $55,000

ABNEY, THOMAS O; *THE ROLE OF ESTROGENS IN TESTICULAR FUNCTION (PCM-8109847)*; 24 MONTHS $80,000

UNIVERSITY OF GEORGIA

CORMIER, MILTON J; *ROLE OF CALCIUM DEPENDENT MODULATOR PROTEIN IN PLANTS (PCM-7905043 A02)*; 12 MONTHS $57,338

RAWSON, JAMES R Y; *CHLOROPLAST BIOGENESIS: THE SEQUENCE OF TRANSCRIPTIONAL AND TRANSLATIONAL EVENTS DURING AN INTRACELLULAR DEVELOPMENTAL PROCESS (PCM-8007507 A01)*; 12 MONTHS $71,317

CORMIER, MILTON J; *CA2-DEPENDENT REGULATION OF COELENTERATE BIOLUMINESCENCE (PCM-8007672 A01)*; 12 MONTHS $55,000

WAMPLER, JOHN E; *STUDIES AND APPLICATIONS OF EARTHWORM BIOLUMINESCENCE (PCM-8012433 A01)*; 12 MONTHS $35,000

DURE, LEON S; *DEVELOPMENTAL BIOCHEMISTRY OF PLANT SEED EMBRYOGENESIS AND GERMINATION (PCM-8012786 A01)*; 12 MONTHS $66,591

LEE, JOHN W; *ENERGY CONVERSION MECHANISMS IN BIOLUMINESCENCE (PCM-8016692 A01)*; 12 MONTHS $30,000

MEAGHER, RICHARD B; *A MODEL GENETIC ENGINEERING SYSTEM IN PLANTS (PCM-8016979 A01)*; 12 MONTHS $60,000

PECK, HARRY D, AND PAYNE, WILLIAM J; *THE BIOCHEMISTRY AND PHYSIOLOGY OF NITRATE RESPIRATION (PCM-8018308)*; 12 MONTHS $50,000

PRATT, LEE H; *PHYTOCHROME LOCALIZATION: VISUALIZATION BY IMMUNOCYTOCHEMISTRY (PCM-8022159)*; 12 MONTHS $47,072

MAKULA, RONALD A; *ACQUISITION OF FERMENTATION EQUIPMENT (PCM-8022813)*; 12 MONTHS $50,000

SCHMIDT, GREGORY W; *REGULATION OF CYTOPLASMIC SYNTHESIS OF CHLOROPLAST PROTEINS (PCM-8023074)*; 12 MONTHS $45,000

BLACK, CLANTON C; *PATHWAYS OF CARBON DIOXIDE, NITRATE, SULFATE, AND PHOSPHATE ASSIMILATION IN HIGHER PLANT LEAVES (PCM-8023949)*; 12 MONTHS $65,000

PALEVITZ, BARRY A; *THE CYTOSKELETON AND MEMBRANES IN PLANT CELLS (PCM-8104470)*; 12 MONTHS $70,000

JAWORSKI, ALAN J; *CONTROL OF TRANSLATION IN ZOOSPORES (PCM-8110587)*; 24 MONTHS $79,992

HAWAII

UNIVERSITY OF HAWAII-MANOA

AHEARN, GREGORY A; *COMPARATIVE GASTROINTESTINAL TRANSPORT PHYSIOLOGY OF CRUSTACEANS (PCM-7684105 A03)*; 6 MONTHS $6,000

MC CONNELL, BRUCE; *MODEL FOR DNA MODIFICATION (PCM-7720154 A03)*; $1,500

ALLEN, RICHARD D; *MEMBRANE DYNAMICS IN INTRACELLULAR DIGESTION (PCM-7815893 A02)*; 12 MONTHS $55,000

YAMAMOTO, HARRY Y; *BIOCHEMISTRY AND ORGANIZATION OF CAROTENOIDS IN HIGHER PLANTS (PCM-7822153 A01)*; 12 MONTHS $41,125

VOLINI, MARGUERIT; *BIOLOGICAL SULFUR TRANSFER AND ENZYME CONFORMATIONAL CHANGES (PCM-7907563 A01)*; $10,000

ROSEN, LEON; *INSECTS, RHABDOVIRUSES, AND HEREDITARY SENSITIVITY TO CO2 (PCM-8010675 A01)*; 12 MONTHS $55,000

LAU, ALAN F; *CELLULAR TARGETS OF PP60SRC IN ASV-INFECTED VOLE CELLS (PCM-8021884)*; 24 MONTHS $90,000

ALLEN, RICHARD D; *MEMBRANE DYNAMICS IN INTRACELLULAR DIGESTION (PCM-8110802)*; 12 MONTHS $61,694

ILLINOIS

EASTERN ILLINOIS UNIVERSITY

CARLSON, RUSSELL W; *RHIZOBIUM-LEGUME SYMBIOSIS (PCM-8104481)*; 12 MONTHS $20,513

ILLINOIS INSTITUTE OF TECHNOLOGY

BUSH, C A; *OPTICAL ACTIVITY AND THE CONFORMATION OF COMPLEX OLIGOSACCHARIDES (PCM-7918887 A01)*; 12 MONTHS $51,000

BUSH, C A; *OPTICAL ACTIVITY AND THE CONFORMATION OF COMPLEX OLIGOSACCHARIDES (PCM-7918887 A02)*; $9,453

LOYOLA UNIVERSITY OF CHICAGO-STRITCH SCHOOL OF MEDICINE

O'MORCHOE, CHARLES C; *MECHANISM OF LYMPH FORMATION (PCM-8021185)*; 12 MONTHS $46,280

NORTHWESTERN UNIVERSITY-CHICAGO CAMPUS-MEDICAL SCHOOL

GOLDMAN, ROBERT D; *THE NEURONAL CYTOSKELETON (BNS-8023922*)*; 12 MONTHS $25,000

NORTHWESTERN UNIVERSITY

LOACH, PAUL A; *CHEMISTRY OF THE PHOTOTRAP IN BACTERIAL PHOTOSYNTHESIS (PCM-7816669 A02)*; 12 MONTHS $40,000

KING, ROBERT C; *STUDIES ON GIANT CHROMOSOMES FROM A NEW SOURCE IN DROSOPHILA MELANOGASTER (PCM-7907597 A01)*; 24 MONTHS $90,000

HOFFMAN, BRIAN M; *METALLOPORPHYRINS AND METAL-SUBSTITUTED OXYGEN-BINDING HEMOPROTEINS (PCM-7922178 A01)*; 12 MONTHS $54,000

RUNDELL, MARY K; *ANALYSIS OF SV40 NON-T TUMOR ANTIGENS (PCM-8002371 A01)*; 12 MONTHS $53,000

PIERCE, SUSAN K; *SPECIFICITY AND FUNCTIONAL POTENTIAL OF INDIVIDUAL HELPER T LYMPHOCYTES (PCM-8104469)*; 12 MONTHS $31,129

UNIVERSITY OF CHICAGO

WESTLEY, JOHN; *ENZYMIC MECHANISMS OF SULFUR-TRANSFER CATALYSIS (PCM-7726861 A02)*; 6 MONTHS $10,000

SHAPIRO, JAMES A; *GENETICS AND REGULATION OF ALKANE METABOLISM IN PSEUDOMONAS (PCM-7903840 A02)*; 12 MONTHS $80,000

EPSTEIN, WOLFGANG; *MONOVALENT CATION TRANSPORT IN E. COLI (PCM-7904641 A01)*; 12 MONTHS $44,000

LINDQUIST, SUSAN L, AND ALBERTE, RANDALL S; *ACQUISITION OF CELL AND MOLECULAR BIOLOGY EQUIPMENT (PCM-8018735)*; 12 MONTHS $20,000

MCCLINTOCK, MARTHA; *ROLE OF BEHAVIOR IN THE CONTROL OF REPRODUCTIVE PROCESSES (BNS-8019496*)*; 36 MONTHS $45,000

METS, LAURENS J; *CORRELATED PHYSICAL AND GENETIC MAPPING OF CHLOROPLAST DNA (PCM-8022792)*; 12 MONTHS $20,000

HEINRIKSON, ROBERT L; *ON THE ACTIVE SITE AND GLOBULAR DOMAINS OF RHODANESE (PCM-8025508)*; 12 MONTHS $30,000

ELDER, ROBERT T; *REGULATED EXPRESSION OF THE YEAST TRANSPOSABLE ELEMENT TY1 (PCM-8108870)*; 12 MONTHS $65,000

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

GASSMAN, MERRILL L; *OXIDATION OF CHLOROPHYLL PRECURSORS AND ITS RELATION TO THE CONTROL OF GREENING (PCM-7901605 A03)*; 12 MONTHS $55,000

LIEBMAN, SUSAN W; *THE DEL1 MUTATOR IN YEAST (PCM-7904584 A01)*; 12 MONTHS $55,840

ANDERSON, LOUISE E; *METABOLIC REGULATION IN PHOTOSYNTHETIC ORGANISMS (PCM-8005618)*; 12 MONTHS $57,941

MORRISON, DONALD A; *RECOMBINATION MECHANISMS IN PNEUMOCOCCAL TRANSFORMATION (PCM-8021435)*; 12 MONTHS $61,627

UNIVERSITY OF ILLINOIS AT URBANA

VANDERHOEF, LARRY N; *HORMONAL REGULATION OF GROWTH (PCM-7714175 A03)*; $7,906

UHLENBECK, OLKE C; *STRUCTURE AND FUNCTION OF T4 POLYNUCLEOTIDE KINASE (PCM-7808600 A02)*; 12 MONTHS $40,000

REBEIZ, CONSTANTI A; *CHLOROPHYLL BIOSYNTHESIS: THE REACTIONS BETWEEN MG-PROTOPORPHYRIN MONOESTER AND PROTOCHLOROPHYLLIDE (PCM-7811559 A03)*; 12 MONTHS $34,223

SCHUSTER, GARY B; *EXCITED STATE DYNAMICS OF CHLOROPHYLL (PCM-7815295 A02)*; 12 MONTHS $38,000

KAPLAN, SAMUEL; *BACTERIAL CHROMATOPHORE FORMATION (PCM-7819592 A01)*; 12 MONTHS $43,000

GUNSALUS, IRWIN C; *METABOLIC PLASMIDS: STRUCTURE, TRANSFER AND EXPRESSION (PCM-7821678 A02)*; 12 MONTHS $110,000

OLDFIELD, ERIC; *NUCLEAR MAGNETIC RESONANCE STUDIES OF THE STRUCTURE OF MODEL AND BIOLOGICAL MEMBRANES (PCM-7823021 A02)*; 12 MONTHS $50,000

GOVINDJEE, - -; *ROLE OF BICARBONATE IN REGULATING PHOTOSYNTHETIC ELECTRON FLOW (PCM-7824532 A01)*; 12 MONTHS $41,500

WOLFE, RALPH S; *METHYL-TRANSFER REACTIONS IN METHANOGENS AND ACETOGENS (PCM-7825141 A02)*; 12 MONTHS $45,000

FUTRELLE, ROBERT P; *CELL BEHAVIOR IN DEVELOPMENT (PCM-7904243 A01)*; 24 MONTHS $100,000

FRAUENFELDER, HANS, DEBRUNNER, PETER G, AND EISENSTEIN, LAURA; *PHYSICAL STUDIES OF BIOMOLECULES (PCM-7905072 A01)*; 12 MONTHS $95,000

LARSON, BRUCE L; *TRANSPORT MECHANISM FOR IGG1 ACROSS THE MAMMARY SECRETORY CELL (PCM-7909052 A02)*; 12 MONTHS $56,000

HANSON, JOHN B; *METABOLIC MECHANISMS OF PLANT RESPONSE TO LOW WATER POTENTIALS (PCM-7909790 A01)*; 12 MONTHS $49,640

HAGER, LOWELL P; *BIOLOGICAL HALOGENATION MECHANISMS (PCM-7910656 A03)*; $12,100

HAGER, LOWELL P; *BIOLOGICAL HALOGENATION MECHANISMS (PCM-7910656 A04)*; 12 MONTHS $44,000

GUTOWSKY, H S; *NUCLEAR MAGNETIC RESONANCE (PCM-7911148 A01)*; 12 MONTHS $55,000

EBREY, THOMAS G; *LIGHT ENERGY TRANSDUCTION IN THE PURPLE MEMBRANE OF HALOBACTERIUM HALOBIUM (PCM-7911778 A02)*; 12 MONTHS $40,000

HANSON, JOHN B; *INCREASED ION ABSORPTION RATES INDUCED BY WASHING OF ROOT TISSUE (PCM-7913406 A01)*; 12 MONTHS $50,550

PROSSER, C LADD; *PHYSIOLOGICAL MECHANISMS OF TEMPERATURE ADAPTATION IN FISHES (PCM-7914186 A01)*; 12 MONTHS $43,550

CAMERON, JOANN; *SOURCE OF MYOBLASTS IN AMPHIBIAN MUSCLE REGENERATION (PCM-7919338 A01)*; 12 MONTHS $40,000

SHAPIRO, DAVID J; *CONTROL OF GENE EXPRESSION IN HORMONE DEPENDENT DIFFERENTIATION (PCM-7920671 A01)*; 12 MONTHS $65,000

DICKINSON, DAVID B; *METABOLISM OF MYO-INOSITOL AND D-GLUCURONIC ACID AS RELATED TO PLANT CELL GROWTH (PCM-7922686)*; 24 MONTHS $24,080

BAHR, JANICE M, AND CALVO, FRANCISCO; *MECHANISM OF HORMONE ACTION IN OVARIAN FOLLICLES (PCM-7922687 A01)*; 12 MONTHS $60,196

OLDFIELD, ERIC; *CARBON-13 NMR OF LABELLED PROTEIN CRYSTALS (PCM-7923170 A01)*; 12 MONTHS $66,000

BALDWIN, THOMAS O; *THE STRUCTURE AND ACTION OF BACTERIAL LUCIFERASE: A MODEL FLAVIN HYDROXYLASE SYSTEM (PCM-7925335 A01)*; 12 MONTHS $43,000

CRONAN, JOHN E; *METABOLIC FUNCTION OF PROTEIN - LIPID INTERACTION (PCM-7925689 A01)*; 12 MONTHS $39,000

WIDHOLM, JACK M; *CONTROL OF AMINO ACID BIOSYNTHESIS IN MUTANT PLANT CELL CULTURES (PCM-8010927)*; 24 MONTHS $70,000

CHEESEMAN, JOHN M; *POTASSIUM TRANSPORT IN RELATION TO SALINITY TOLERANCE MECHANISMS (PCM-8011138)*; 24 MONTHS $50,000

WRAIGHT, COLIN A; *CHARGE STABILIZATION PROCESSES IN PHOTOSYNTHESIS (PCM-8012032 A01)*; 12 MONTHS $57,000

SWITZER, ROBERT L; *STRUCTURE AND FUNCTION OF A NOVEL IRON-SULFUR PROTEIN (PCM-8013476 A01*)*; 12 MONTHS $32,000

KATZENELLENBOGE, N JOHN A; *CHEMICALLY-REACTIVE JUVENILE HORMONE ANALOGS (PCM-8016752)*; 24 MONTHS $70,000

KAPLAN, SAMUEL; *THE REGULATION OF BACTERIAL CHROMATOPHORE FORMATION (PCM-8020799)*; 12 MONTHS $37,000

HO, TUAN-HUA D; *ACTION OF HORMONES IN PLANT DEVELOPMENT (PCM-8021632)*; 12 MONTHS $65,530

WHITT, GREGORY S; *DEVELOPMENTAL GENETIC ANALYSES WITH INTERSPECIFIC FISH HYBRIDS (PCM-8102328)*; 24 MONTHS $90,000

GARDNER, JEFFREY F; *GENETIC REGULATION OF THE THREONINE OPERON OF ESCHERICHIA COLI (PCM-8107192)*; 12 MONTHS $60,000

NARDI, JAMES B; *GUIDANCE OF NEURONAL OUTGROWTH (PCM-8108852)*; 12 MONTHS $35,000

HOLZWARTH, MATILDE A; *AFFERENT AND EFFERENT INNERVATION OF THE ADRENAL CORTEX (PCM-8109756*)*; 24 MONTHS $105,000

WIDHOLM, JACK M; *SELECTION AND CHARACTERIZATION OF AUXOTROPHIC PLANT CELL CULTURES (PCM-8109808)*; 12 MONTHS $50,000

DEMOSS, RALPH D; *CONFERENCE ON GENETIC ENGINEERING OF MICROORGANISMS FOR CHEMICALS; MAY 26 - 29, 1981; URBANA, ILLINOIS (PCM-8140923)*; 6 MONTHS $4,000

INDIANA

INDIANA STATE UNIVERSITY

HOPP, WILLI M B; *NOVEL SUPPRESSION OF IMMUNITY MEDIATED BY TRYPANOSOMES (PCM-8017183)*; 12 MONTHS $45,000

INDIANA UNIVERSITY, BLOOMINGTON

SHINER, VERNON J; *SECONDARY DEUTERIUM ISOTOPE EFFECTS AND ENZYMATIC REACTION MECHANISMS (PCM-7711294 A03)*; $6,000

MAHLER, HENRY R; *DYNAMICS OF YEAST PLASMA MEMBRANES (PCM-7818393 A02)*; 12 MONTHS $48,367

GEST, HOWARD; *NITROGEN FIXATION, HYDROGEN METABOLISM, AND BIOENERGETIC REGULATION IN PHOTOSYNTHETIC BACTERIA (PCM-7910747 A01)*; 12 MONTHS $92,500

ALLERHAND, ADAM; *STRUCTURE AND DYNAMICS OF LARGE MOLECULES IN SOLUTION. CARBON-13 NUCLEAR MAGNETIC RESONANCE STUDIES (PCM-7916899 A02)*; 12 MONTHS $60,000

SCHWARTZ, DREW; *THE REGULATION OF GENE ACTION IN MAIZE (PCM-7921230 A01)*; 12 MONTHS $47,016

CROUCH, MARTHA L; *REGULATION OF EMBRYO-SPECIFIC STORAGE PROTEIN IN THE FLOWERING PLANT BRASSICA NAPUS (PCM-8003803)*; 12 MONTHS $75,000

RAFF, ELIZABETH C; *BIOCHEMICAL AND GENETIC REGULATION OF MORPHOGENESIS: THE CONTROL OF MICROTUBULE ASSEMBLY DURING SPERMATOGENESIS IN DROSOPHILA (PCM-8005701 A01)*; 12 MONTHS $46,740

MALACINSKI, GEORGE M; *PRIMARY EMBRYONIC INDUCTION-ITS CELLULAR BASIS (PCM-8006343)*; 12 MONTHS $62,363

MALACINSKI, GEORGE M; *PRIMARY EMBRYONIC INDUCTION-ITS CELLULAR BASIS (PCM-8006343 A01)*; $7,587

PREER, JOHN R; *STUDIES ON GENE ACTION IN PARAMECIUM (PCM-8022828)*; 24 MONTHS $100,000

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS

OLSON, KENNETH R; *VASCULAR PATHWAYS IN FISH GILLS AND THEIR FUNCTION IN RESPIRATION AND OSMOREGULATION (PCM-7923073 A01)*; 12 MONTHS $25,000

RAO, B D; *ACQUISITION OF MULTI-USER NUCLEAR MAGNETIC RESONANCE SPECTROMETER FOR BIOLOGICAL RESEARCH (PCM-8018725)*; 12 MONTHS $125,000

RAO, B D; *MAGNETIC RESONANCE STUDIES OF BIOLUMINESCENT PROTEINS OF AEQUOREA FORSKALEA (PCM-8022075)*; 12 MONTHS $50,000

WILSON, KATHRYN; *INVESTIGATIONS OF LATICIFER DIFFERENTIATION AND STRUCTURE IN WHOLE PLANTS AND TISSUE CULTURES OF ASCLEPIAS SPECIES (PCM-8104092)*; 24 MONTHS $37,234

PURDUE UNIVERSITY

LOVETT, JAMES S; *REGULATION OF MESSENGER RNA STORAGE AND TRANSLATION IN FUNGAL DEVELOPMENT (PCM-7808956 A03)*; $9,097

ROSSMANN, MICHAEL G; *X-RAY DETERMINATION OF PROTEINS AND VIRUSES (PCM-7816584 A02)*; 12 MONTHS $80,000

CRANE, FREDERICK L; *PHOTOSYNTHETIC ELECTRON TRANSPORT (PCM-7820458 A01)*; 12 MONTHS $33,760

BRENCHLEY, JEAN E; *REGULATION OF AMMONIA ASSIMILATION IN SALMONELLA (PCM-7820888 A02)*; 12 MONTHS $64,728

BRACKER, CHARLES E; *BIOCHEMISTRY AND CYTOLOGY OF MORPHOGENESIS IN MUCOR (PCM-7822832 A01)*; 12 MONTHS $33,036

JAFFE, LIONEL F; *CONTROL OF EARLY DROSOPHILA DEVELOPMENT BY STEADY IONIC CURRENTS (PCM-7823056 A02)*; 12 MONTHS $54,000

KROGMANN, DAVID W; *PHOTOSYNTHETIC PHOSPHORYLATION AND ELECTRON TRANSPORT (PCM-7900310 A02)*; 12 MONTHS $65,262

ARONSON, ARTHUR I; *STRUCTURE AND FUNCTION OF BACILLUS THURINGIENSIS (PCM-7907591 A01*)*; 12 MONTHS $19,000

JOHNSON, JOHN E; *STRUCTURAL STUDIES OF A MULTICOMPONENT RNA PLANT VIRUS (PCM-7911010 A02)*; 12 MONTHS $50,000

DILLEY, RICHARD A; *CHLOROPLAST MEMBRANE BIOCHEMISTRY (PCM-7923494)*; 12 MONTHS $69,000

LARKINS, BRIAN A; *ANALYSIS OF ZEIN GENE EXPRESSION DURING MAIZE ENDOSPERM DEVELOPMENT (PCM-8003757 A01)*; 12 MONTHS $69,828

ARGOS, PATRICK; *ATOMIC STRUCTURE OF VIRUSES BY X-RAY DIFFRACTION (PCM-8004575 A01)*; 12 MONTHS $50,000

MORTENSON, LEONARD E; *HYDROGENASE: ITS CHEMICAL, PHYSICAL AND CATALYTIC PROPERTIES AND ITS FUNCTION IN THE ENERGY METABOLISM OF BACTERIA (PCM-8011344)*; 12 MONTHS $70,000

AXELROD, BERNARD; *MECHANISM OF ACTION OF LIPID DIOXYGENASES (PCM-8011820 A01)*; 12 MONTHS $44,000

CASSADY, JOHN M; *MASS SPECTROMETER DATA SYSTEM (PCM-8012432)*; 12 MONTHS $70,000

FLOSS, HEINZ G; *STEREOCHEMISTRY OF REACTIONS AT PROCHIRAL AND PRO-PROCHIRAL CENTERS - A 13C, DEUTERIUM DOUBLE LABELING APPROACH (PCM-8013469)*; 24 MONTHS $30,000

KEENAN, THOMAS W; *ROLE OF MAMMARY EPITHELIAL CELLULAR ENDOMEMBRANES IN MILK FORMATION (PCM-8019414)*; 12 MONTHS $44,000

OTTO, JOANN; *THE MOLECULAR BASIS OF FILOPODIAL FORMATION (PCM-8020984)*; 24 MONTHS $90,000

CRAMER, WILLIAM A; *ELECTRON AND PROTON TRANSFER REACTIONS IN PHOTOSYNTHETIC ENERGY TRANSDUCTION (PCM-8022807)*; 12 MONTHS $61,700

ARNOTT, STRUTHER; *FIBER DIFFRACTION STUDIES (PCM-8102810)*; 12 MONTHS $62,000

VANABLE, JOSEPH W, AND JAFFE, LIONEL F; *ELECTRICAL CONTROLS OF REGENERATION AND WOUND HEALING (PCM-8104657)*; 24 MONTHS $100,000

GELVIN, STANTON B; *TRANSCRIPTION OF TI-PLASMIDS IN AGROBACTERIUM AND IN CROWN GALL TUMORS (PCM-8109626)*; 12 MONTHS $50,000

ITEN, LAURIE E; *ANALYSIS OF PATTERN SPECIFICATION AND PATTERN REGULATION IN THE DEVELOPING CHICK LIMB (PCM-8110848)*; 24 MONTHS $95,000

LASKOWSKI, MICHAEL; *SYNTHESES OF PEPTIDE BONDS CATALYZED BY PROTEINASES (PCM-8111380)*; 12 MONTHS $44,000

LOVETT, JAMES S; *GENE EXPRESSION IN FUNGAL DEVELOPMENT (PCM-8111483)*; 12 MONTHS $45,000

UNIVERSITY OF NOTRE DAME

DUMAN, JOHN G; *INSECT ICE NUCLEAR PROTEINS: PURIFICATION AND PHYSICAL-CHEMICAL PROPERTIES (PCM-8109708)*; 24 MONTHS $98,622

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

WELSHONS, WILLIAM J; *THE CYTOGENETICS OF LOCUS DELETIONS AT NOTCH IN DROSOPHILA (PCM-7813710 A02)*; 12 MONTHS $24,713

NEVINS, DONALD J; *MOLECULAR BASIS FOR CELL GROWTH IN PLANTS (PCM-7818588 A01)*; 12 MONTHS $43,930

ROBERTSON, DONALD S; *GENETIC ANALYSIS OF A MUTATOR SYSTEM IN MAIZE (PCM-7913052 A01)*; 12 MONTHS $50,000

SHEN, SHELDON S; *REGULATION OF INTRACELLULAR PH IN THE EGG AND EARLY EMBRYO OF THE SEA URCHIN (PCM-8003732 A01)*; 12 MONTHS $40,000

HALLBERG, RICHARD; *RIBOSOMAL PROTEIN SYNTHESIS AND UTILIZATION IN WILD TYPE AND MUTANT TETRAHYMENA (PCM-8011475 A01)*; 12 MONTHS $40,000

COOLBAUGH, RONALD C; *BIOSYNTHESIS OF GIBBERELLINS (PCM-8016337)*; 12 MONTHS $32,832

PETERSON, PETER A; *GENETICS OF MUTABLE LOCI IN MAIZE (PCM-8021575)*; 24 MONTHS $90,000

BISHOP, STEPHEN H; *CONTROL OF AMINO ACID LEVELS DURING CELL VOLUME REGULATION (PCM-8022606)*; 12 MONTHS $52,000

FROMM, HERBERT J; *STUDIES ON THE MECHANISM AND CONTROL OF ENZYME ACTION (PCM-8101999)*; 12 MONTHS $36,000

DOONER, HUGO K; *THE COORDINATE REGULATION OF UNLINKED, FUNCTIONALLY RELATED, GENES IN MAIZE (PCM-8109634)*; 24 MONTHS $60,000

UNIVERSITY OF IOWA-COLLEGE OF MEDICINE

DONELSON, JOHN E; *PROLACTIN, IMMUNOGLOBULIN AND MITOCHONDRIAL GENE ORGANIZATION AND EXPRESSION (PCM-7821093 A02)*; 12 MONTHS $70,000

OAKS, JOHN A; *BIOGENESIS OF CESTODE SURFACE MEMBRANE (PCM-7911770 A02)*; 12 MONTHS $60,000

LARSEN, WILLIAM J; *GRANULOSA GAP JUNCTION CHANGES IN THE REPRODUCTIVE CYCLE (PCM-8023028)*; 12 MONTHS $45,472

UNIVERSITY OF IOWA

STAHLY, DONALD P; *SPORULATION AND THE LYSINE BIOSYNTHETIC PATHWAY (PCM-7823157 A02)*; $8,000

CARLSON, WAYNE R; *GENES CONTROLLING DISJUNCTION OF THE B CHROMOSOME IN CORN (PCM-7911063 A01)*; 12 MONTHS $45,000

NELSEN, E M, AND FRANKEL, JOSEPH; *ANALYSIS OF POSITIONAL INTERACTIONS IN A UNICELL (PCM-8021879)*; 24 MONTHS $40,000

BULL, HENRY B; *DENSITIES OF ALCOHOLS, PROTEINS, AND MIXTURES (PCM-8016674)*; 24 MONTHS $25,000

FISCHER, LAWRENCE J; *ACQUISITION OF MASS SPECTROMETER (PCM-8100292)*; 12 MONTHS $85,000

GUSSIN, GARY N; *GENETIC APPROACHES TO THE STUDY OF METABOLIC PROCESSES (A SYMPOSIUM); OCTOBER 16 AND 17, 1981; IOWA CITY, IOWA (PCM-8110362)*; 6 MONTHS $7,200

KANSAS

KANSAS STATE UNIVERSITY

WONG, PETER P; *ELECTRON TRANSPORT TO RHIZOBIUM NITROGENASE AND NITRATE REDUCTASE (PCM-7904063 A01)*; 12 MONTHS $40,000

RODKEY, LEO S; *AUTOREGULATION OF IMMUNE PROCESSES (PCM-7921110 A01)*; 12 MONTHS $54,725

SHEPARD, JAMES F; *FUSION, SELECTION AND REGENERATION OF MESOPHYLL PROTOPLASTS (PCM-8020713*)*; 12 MONTHS $90,167

CURRIER, THOMAS C; *DEVELOPMENT OF GENETIC SYSTEMS IN THE PHYTOPATHGENIC BACTERIUM, PSEUDOMONAS (PCM-8021628)*; 12 MONTHS $37,998

CHATTERJEE, ARUN K; *GENETICS OF POLYGALACTURONATE CATABOLISM IN ERWINIA CHRYSANTHEMI (PCM-8022005)*; 24 MONTHS $90,000

JOHNSON, LOWELL B, STUTEVILLE, DONALD L, AND GILL, BIKRAM S; *GENETIC ENGINEERING IN ALFALFA THROUGH PROTOPLAST FUSION AND REGENERATION OF SOMATIC HYBRIDS (PCM-8023554*)*; 36 MONTHS $131,685

WILSON, FRED E; *PHOTIC AND FEEDBACK REGULATION OF GONADOTROPIN SECRETION (PCM-8104087)*; 12 MONTHS $45,000

DENELL, ROBIN E; *GENETIC STUDIES OF A CHROMOSOMAL REGION OF UNIQUE DEVELOPMENTAL IMPACT IN DROSOPHILA MELANOGASTER (PCM-8104473*)*; 12 MONTHS $54,000

MUTHUKRISHNAN, SUBBARATN; *EFFECTS OF GIBBERELLIC ACID IN BARLEY ALEURONES (PCM-8109757)*; 12 MONTHS $55,000

PINKETT, MARY O; *CYTIDINE 3', 5' MONOPHOSPHATE (CYCLIC GMP) AND CYTIDYLATE CYCLASE (PCM-8141775)*; 12 MONTHS $7,000

UNIVERSITY OF KANSAS MAIN CAMPUS

SZE, HEVEN; *ROLE OF AN ATPASE IN SOLUTE TRANSPORT OF PLANTS (PCM-8016808)*; 24 MONTHS $72,227

HALDENWANG, WILLIAM G; *MULTIPLE SIGMA-LIKE SUBUNITS OF BACILLUS SUBTILIS RNA POLYMERASE (PCM-8021300)*; 12 MONTHS $55,654

FROST, SALLY K; *THE REGULATION OF PIGMENTATION IN DEVELOPING AMPHIBIAN SYSTEMS (PCM-8022599)*; 24 MONTHS $80,000

UNIVERSITY OF KANSAS MEDICAL CENTER

FISHER, HARVEY F; *THE ENERGETICS AND MECHANISMS OF ENZYME CATALYZED REACTIONS (PCM-7826256 A02)*; 12 MONTHS $45,000

FISHER, HARVEY F; *THE ENERGETICS AND MECHANISMS OF ENZYME CATALYZED REACTIONS (PCM-7826256 A03)*; $20,000

KENTUCKY

UNIVERSITY OF KENTUCKY

CHENIAE, GEORGE M; *FUNCTIONS OF MANGANESE IN PHOTOSYNTHETIC O2 EVOLUTION (PCM-7807694 A02)*; 12 MONTHS $59,113

UGLEM, GARY L; *COMPARATIVE PHYSIOLOGY OF PARASITIC FLATWORMS (PCM-7816088 A02)*; $10,000

ROSENTHAL, GERALD A; *CHEMISTRY OF NON-PROTEIN AMINO ACIDS (PCM-7820167 A01)*; 12 MONTHS $45,270

MORGAN, JANET L; *MICROFILAMENTS, MICROTUBULES AND MORPHOGENESIS (PCM-7911611 A01)*; 24 MONTHS $130,000

STEINER, SHELDON M; *ACQUISITION OF HPLC INSTRUMENTATION FOR BIOLOGICAL RESEARCH (PCM-8100310)*; 2 MONTHS $23,000

UNIVERSITY OF LOUISVILLE

RAMP, WARREN K; *EFFECTS OF VITAMIN D ON BONE (PCM-7918804 A01)*; 12 MONTHS $47,000

COX, HOLLACE L; *RELAXATION TIME MEASUREMENTS FOR DNA INTERCALATING DYES AND DRUGS DETERMINED BY LASER FREQUENCY MIXING TECHNIQUES USING OPTICAL WAVEGUIDES (PCM-8023811 A01)*; $4,413

DOYLE, RONALD J, AND STREIPS, ULDIS N; *CELL WALL-DNA INTERACTIONS IN BACTERIA (PCM-8104099)*; 12 MONTHS $47,452

LOUISIANA

LOUISIANA STATE UNIV MED CTR SHREVEPORT

GILLELAND JR, HARRY E; *BALZERS BAF 400 HIGH VACUUM FREEZE-ETCH UNIT (PCM-8018636)*; 12 MONTHS $25,000

LOUISIANA STATE UNIVERSITY, BATON ROUGE

MATTICE, WAYNE L; *CONFORMATIONAL CHANGES INDUCED IN PROTEINS BY LIPIDS (PCM-7822916 A02)*; 12 MONTHS $35,000

DIETZ, THOMAS H; *IONIC REGULATION IN THE FRESHWATER MUSSELS (PCM-7921089 A01)*; 12 MONTHS $40,897

TULANE UNIVERSITY-DELTA REGIONAL PRIMATE RESEARCH CENTER

LI, YU-TEH; *THE GLYCOSIDASES INVOLVED IN THE DEGRADATION OF COMPLEX CARBOHYDRATES (PCM-7922466 A01)*; 12 MONTHS $26,000

TULANE UNIVERSITY

ALWORTH, WILLIAM L; *NICOTINE SYNTHETASE IN CELL-FREE EXTRACTS OF NICOTIANA (PCM-7712581 A03)*; 12 MONTHS $20,000

FINGERMAN, MILTON; *THE ROLES OF NEUROTRANSMITTER SUBSTANCES IN THE RELEASE OF CHROMATOPHOROTROPIC HORMONES (PCM-7826094 A01)*; 12 MONTHS $56,000

MAINE

JACKSON LABORATORY

BEDIGIAN, HENDRICK G; *VIRAL ONCOGENESIS IN THE RABBIT (PCM-8005503 A01)*; 12 MONTHS $44,975

EPPIG, JOHN J; *RESPONSE OF THE OOCYTE-CUMULUS CELL COMPLEX TO HORMONES (PCM-8105414)*; 12 MONTHS $50,000

MOUNT DESERT ISLAND BIOLOGICAL LABORATORY

GOLDSTEIN, LEON; *OPERATIONAL SUPPORT FOR THE MOUNT DESERT ISLAND BIOLOGICAL LABORATORY (DEB-8100823*)*; 12 MONTHS $65,000

UNIVERSITY OF MAINE, ORONO

SHICK, J MALCOLM; *PHYSIOLOGICAL ADAPTATIONS IN INTERTIDAL INVERTEBRATES (PCM-7911027 A02)*; 12 MONTHS $19,997

SIDELL, BRUCE D; *STRUCTURE/FUNCTION ADAPTATIONS TO ENVIRONMENTAL TEMPERATURE IN FISH SKELETAL MUSCLE (PCM-8104112)*; 12 MONTHS $49,000

MARYLAND

JOHNS HOPKINS UNIVERSITY

PIGIET, VINCENT P; *THE ROLE OF THIOREDOXIN IN PHOSPHOTRANSFERASE REACTIONS (PCM-7801397 A02)*; 12 MONTHS $40,000

ACKERS, GARY K; *PHYSICOCHEMICAL STUDIES ON THE ASSEMBLY OF THE HISTONE OCTAMER (PCM-8014533)*; 12 MONTHS $57,000

ACKERS, GARY K; *STUDIES ON THE LINKAGE BETWEEN OXYGENATION AND SUBUNIT DISSOCIATION IN HUMAN HEMOGLOBIN (PCM-8023211)*; 12 MONTHS $84,000

SCANGOS, GEORGE A; *GENETIC TRANSFORMATION OF MAMMALIAN CELLS BY MICROINJECTION OF DNA (PCM-8105296)*; 12 MONTHS $65,000

LEE, YUAN C; *CARBOHYDRATE-MEDIATED PINOCYTOSIS AND PHAGOCYTOSIS (PCM-8109855)*; 24 MONTHS $100,000

GAFFNEY, BETTY J; *CHEMICAL AND BIOPHYSICAL STUDIES OF SINDBIS VIRUS GLYCOPROTEIN SPIKES (PCM-8109863)*; 12 MONTHS $70,000

DE VRIES, YUAN L, AND HUANG, RU-CHIH; *ENVIRONMENTAL CONTROL OF GENE EXPRESSION IN COLD-ADAPTED FISH (PCM-8110279*)*; 16 MONTHS $67,200

HUNT, RICHARD K; *DEVELOPMENT OF NERVE-CELL SPECIFICITY (PCM-8114576)*; 3 MONTHS $25,000

JOHNS HOPKINS UNIVERSITY-SCHOOL OF HYGIENE & PUBLIC HEALTH

GROSSMAN, LAWRENCE; *ENZYMATIC REPAIR OF DNA: COMPARATIVE STUDIES (PCM-7914191 A01)*; 12 MONTHS $45,000

TSO, PAUL O; *NUCLEAR MAGNETIC RESONANCE STUDIES ON THE CONFORMATION AND INTERACTION OF NUCLEIC ACIDS (PCM-8023320)*; 12 MONTHS $60,000

HUANG, P C; *GENETIC STUDY OF METALLOTHIONEIN: SEQUENCE ANALYSIS OF ITS GENES (PCM-8104369)*; 12 MONTHS $49,973

JOHNS HOPKINS UNIVERSITY-SCHOOL OF MEDICINE

LENNARZ, WILLIAM J; *MECHANISM OF BIOSYNTHESIS OF THE POLY-MANNOSE AND COMPLEX OLIGOSACCHARIDE CHAINS OF N-GLYCOSIDICALLY LINKED GLYCOPROTEINS (PCM-7812197 A02)*; 12 MONTHS $36,000

PEDERSEN, PETER L; *PHOSPHATE TRANSPORT PROCESSES OF ANIMAL CELLS (PCM-7813249 A03)*; 12 MONTHS $54,219

MAYER, MANFRED M; *IMMUNOLOGICAL AND CHEMICAL STUDIES OF THE COMPLEMENT SYSTEM (PCM-8014315)*; 12 MONTHS $56,000

ISHIZAKA, KIMISHIGE; *IGE RECEPTORS ON LYMPHOCYTES AND MAST CELLS (PCM-8100080)*; 24 MONTHS $85,000

TSONG, TIAN Y; *PROTEIN CONFORMATIONAL DYNAMICS AND FUNCTIONS (PCM-8109630)*; 12 MONTHS $56,000

UNIFORMED SERVICES UNIV OF HEALTH SCIENCES

LATHAM, KEITH R; *MOLECULAR MECHANISMS OF THYROID HORMONE ACTION (PCM-8111383)*; 24 MONTHS $59,475

UNIVERSITY OF MARYLAND BALTIMORE PROF SCHOOLS

ROSEN, BARRY P; *ACTIVE EFFLUX OF CATIONS IN ESCHERICHIA COLI (PCM-7717652 A03)*; 15 MONTHS $55,700

BLAUSTEIN, MORDECAI P; *SODIUM AND CALCIUM TRANSPORT IN BARNACLE MUSCLE FIBERS AND SQUID AXONS (PCM-7911704 A01)*; 12 MONTHS $50,209

SJODIN, RAYMOND A; *SEPARATION AND INVESTIGATION OF INDIVIDUAL CALCIUM BUFFERING ENTITIES IN GIANT AXONS (PCM-8022820)*; 12 MONTHS $55,732

LAKOWICZ, JOSEPH R; *SEGMENTAL MOBILITY OF BIOPOLYMERS (PCM-8041320)*; 12 MONTHS $30,000

LAKOWICZ, JOSEPH R; *ACQUISITION OF EQUIPMENT FOR PHASE FLOUROMETRIC STUDIES OF BIOPOLYMERS DYNAMICS (PCM-8104910)*; 12 MONTHS $42,000

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

WU, MADELINE; *THE REPLICATION AND DEVELOPMENT OF CHLOROPLAST DNA IN CHLAMYDOMONAS REINHARDI (PCM-8110118)*; 12 MONTHS $39,174

SOKOLOVE, PHILLIP G, AND O'NEILL, MICHAEL C; *BRAIN GONADOTROPIN IN A PHOTOPERIODIC MOLLUSC (PCM-8110191)*; 24 MONTHS $84,411

UNIVERSITY OF MARYLAND, COLLEGE PARK

SHAMOO, ADIL E; *CALCIPHORIN STRUCTURE AND FUNCTION (PCM-7905747 A02)*; 12 MONTHS $53,500

AMMON, HERMAN L; *STRUCTURAL STUDIES OF GLUTAMINASE-ASPARAGINASES (PCM-7907501 A02)*; 12 MONTHS $45,000

MATHER, IAN H; *MEMBRANE ANTIGENS IN MAMMARY TISSUE (PCM-7913403 A02)*; 12 MONTHS $65,084

GOODE, M DENNIS; *DIRECTIONALITY OF MICROTUBULE ASSEMBLY AND THE MECHANISM OF MITOSIS (PCM-8011474 A01)*; 12 MONTHS $52,255

GOODE, M; *CONFERENCE ON CELLULAR EVOLUTION; JUNE 1-3, 1981; PORT DEPOSIT, MARYLAND (PCM-8023288)*; 12 MONTHS $5,000

COOKE, TODD J; *THE CONTROL OF MORPHOGENETIC PHENOMENA IN FERN GAMETOPHYTES (PCM-8104085)*; 12 MONTHS $60,000

MASSACHUSETTS

AMHERST COLLEGE

KIDDER, GEORGE W; *A METABOLIC STUDY OF TRYPANOSOMID (KINETOPLASTID) FLAGELLATES (PCM-8103669)*; 12 MONTHS $19,000

BOSTON BIOMEDICAL RESEARCH INSTITUTE

PAULUS, HENRY; *REGULATION OF AMINO ACID BIOSYNTHESIS (PCM-7911707 A01)*; 12 MONTHS $35,000

WOHLRAB, HARTMUT; *THE MITOCHONDRIAL PHOSPHATE AND DICARBOXYLATE TRANSPORTER(S) (PCM-8003916)*; 24 MONTHS $75,000

GERGELY, JOHN; *FUNCTIONAL SIGNIFICANCE OF THE PHOSPHORYLATION OF STRIATED MUSCLE MYOSIN (PCM-8013005 A01)*; 12 MONTHS $34,000

PAULUS, HENRY; *PEPTIDE ANTIBIOTICS AND BACTERIAL SPORULATION (PCM-8019703)*; 12 MONTHS $50,000

FISHER, ROBERT J; *IN VITRO SYNTHESIS OF THE H-TRANSLOCATING ATPASE (PCM-8110130)*; 12 MONTHS $53,000

PAULUS, HENRY; *REGULATION OF RIBONUCLEOTIDE REDUCTASE DURING THE MAMMALIAN CELL CYCLE (PCM-8111599)*; 24 MONTHS $128,948

BOSTON UNIVERSITY

LAURSEN, RICHARD A; *STRUCTURE, FUNCTION, AND EVOLUTION OF PROTEINS (PCM-7904910 A02)*; 12 MONTHS $43,000

TEETER, MARTHA M; *CRYSTAL STRUCTURE OF CRAMBIN: A PROTEIN AT ATOMIC RESOLUTION (PCM-8003929 A01)*; 12 MONTHS $67,001

KALCKAR, HERMAN M; *RECOGNITION PATTERNS IN FUNCTIONAL MEMBRANE PROTEINS (PCM-8021552)*; 12 MONTHS $40,000

CALLARD, IAN P; *REPRODUCTION IN LOWER VERTEBRATES (PCM-8104144)*; 24 MONTHS $81,029

BOSTON UNIVERSITY-SCHOOL OF MEDICINE

KASHKET, EVA R; *ENERGY METABOLISM IN GROWING BACTERIA (PCM-8001178)*; 12 MONTHS $45,420

ULLRICK, WILLIAM C; *DOES AFFERENT INFORMATION FROM SKELETAL MUSCLE INFLUENCE Z LINE STRUCTURE? (PCM-8021557)*; 24 MONTHS $83,119

BRANDEIS UNIVERSITY

JENCKS, WILLIAM P; *ENERGY TRANSFERRING REACTIONS IN BIOLOGICAL SYSTEMS (PCM-7708369 A04)*; 12 MONTHS $45,000

LOWEY, SUSAN; *PHYSICAL-CHEMICAL BASIS FOR THE CONTRACTILE MECHANISM (PCM-7822710 A02)*; 12 MONTHS $54,000

KUSTIN, KENNETH; *BIOINORGANIC CHEMISTRY OF VANADIUM IN TUNICATES (PCM-7824782 A02)*; 12 MONTHS $35,000

COHEN, CAROLYN; *STRUCTURAL STUDIES OF INVERTEBRATE MUSCLES (PCM-7904396 A02)*; 12 MONTHS $70,000

FASMAN, GERALD D; *PREDICTION OF THE CONFORMATION OF PROTEINS (PCM-7907114 A02)*; 12 MONTHS $47,000

HOLLOCHER, THOMAS C; *METABOLISM AND ENZYMOLOGY OF DENITRIFICATION (PCM-7912566 A01)*; 12 MONTHS $39,781

SCHIFF, JEROME A; *THE METABOLISM OF SULFATE (PCM-7918142 A01)*; 12 MONTHS $76,900

GIBBS, MARTIN; *PATHWAY OF CARBOHYDRATE METABOLISM IN THE AUTOTROPHIC CELL (PCM-7922612)*; 12 MONTHS $76,236

CASPAR, DONALD L; *TV DETECTOR FOR STRUCTURAL BIOLOGY (PCM-7922766 A01)*; 12 MONTHS $100,000

WANGH, LAWRENCE J; *STEROID AND THYROID HORMONE REGULATION OF FROG LIVER PROTEIN SYNTHESIS (PCM-7923483 A01)*; 12 MONTHS $48,000

LOWENSTEIN, JOHN M; *NEW APPROACHES TO THE STUDY OF LIPID METABOLISM (PCM-7923549)*; 24 MONTHS $102,180

EPSTEIN, IRVING R; *KINETICS OF PROTEIN-NUCLEIC ACID AND OTHER LARGE LIGAND-LATTICE INTERACTIONS (PCM-7925375 A01)*; 12 MONTHS $36,000

ABELES, ROBERT H; *MECHANISM OF ENZYME ACTION (PCM-8007670 A01)*; 12 MONTHS $40,000

HALVORSON, HARLYN O; *PROTEIN METABOLISM IN YEAST (PCM-8022817)*; 12 MONTHS $50,000

ERNST, VIVIAN G; *PROTEIN PHOSPHORYLATION AND TRANSLATIONAL CONTROL (PCM-8022837)*; 12 MONTHS $50,000

HABER, JAMES E; *HEALING OF BROKEN EUCARYOTIC CHROMOSOMES (PCM-8110653)*; 12 MONTHS $65,000

CHILDREN'S HOSPITAL MEDICAL CENTER

COLTEN, HARVEY R; *REGULATION OF HISTAMINE METABOLISM (PCM-7900033 A02)*; 12 MONTHS $58,599

GLIMCHER, MELVIN J; *HIGH RESOLUTION SOLID STATE NMR INVESTIGATIONS IN BONE AND OTHER CALCIFIED TISSUES (PCM-7901181 A01)*; 12 MONTHS $55,173

EDELSON, PAUL J; *CELL BIOLOGY OF MACROPHAGE ACTIVATION (PCM-8021900)*; 24 MONTHS $89,933

CLARK UNIVERSITY

NONE,; *THIOREDOXIN IN ASSIMILATORY SULFATE REDUCTION (PCM-7815249 A02)*; 12 MONTHS $51,928

HARVARD UNIVERSITY-HARVARD FOREST

TORREY, JOHN G, AND TJEPKEMA, JOHN; *THE ECOLOGY AND DEVELOPMENTAL BIOLOGY OF NITROGEN FIXATION IN ACTINOMYCETE-NODULATED ANGIOSPERMS (DEB-8106952*)*; 24 MONTHS $50,000

HARVARD UNIVERSITY-HARVARD MEDICAL SCHOOL

WILSON, T HASTING; *GALACTOSIDE TRANSPORT IN BACTERIA (PCM-7800859 A02)*; 12 MONTHS $50,000

SOLOMON, ARTHUR K; *RED CELL MEMBRANE PERMEABILITY TO WATER AND OTHER SMALL MOLECULES (PCM-7822577 A01)*; 12 MONTHS $73,850

SOLOMON, ARTHUR K; *RED CELL MEMBRANE PERMEABILITY TO WATER AND OTHER SMALL MOLECULES (PCM-7822577 A02)*; $2,138

CALLARD, GLORIA V; *CONVERSION OF ANDROGEN TO ESTROGEN IN THE VERTEBRATE BRAIN (PCM-7823214 A02)*; 12 MONTHS $52,395

BECKWITH, JONATHAN R; *THE FACTORS DETERMINING THE LOCATION OF MALTOSE TRANSPORT PROTEINS IN E. COLI (PCM-7924624 A01)*; 12 MONTHS $87,253

ALBERTINI, DAVID F; *STRUCTURE AND FUNCTION OF COATED VESICLES (PCM-7922781 A01)*; 12 MONTHS $45,000

LIN, EDMUND C; *EVOLUTION OF NEW METABOLIC PATHWAYS IN BACTERIA (PCM-7924046)*; 12 MONTHS $75,542

BRIDGES, ROBERT S; *ENDOCRINE AND NEURAL REGULATION OF MATERNAL BEHAVIOR (BNS-8014670 A01*)*; 12 MONTHS $28,000

VEATCH, WILLIAM R; *ACQUISITION OF SCANNING FLUORESCENCE MICROSCOPE PHOTOMETER TO STUDY CELL SURFACE DYNAMICS (PCM-8100316)*; 12 MONTHS $90,000

DAWIDOWICZ, ELIEZAR A; *INTRACELLULAR DISTRIBUTION OF STEROLS (PCM-8110593)*; 24 MONTHS $96,182

HARVARD UNIVERSITY

HASTINGS, J W; *BIOLUMINESCENCE: ENERGY CONVERSION IN BIOLOGICAL SYSTEMS (PCM-7719917 A03)*; $12,600

WANG, JAMES C; *HELICAL AND SUPERHELICAL STRUCTURE OF DNA (PCM-7805892 A02)*; 12 MONTHS $50,000

KNOWLES, JEREMY R; *ENERGETICS OF ENZYME CATALYSIS (PCM-7806652 A03)*; 12 MONTHS $60,000

KAFATOS, FOTIS C; *CELLULAR DIFFERENTIATION AND MULTIGENE FAMILIES (PCM-7809000 A03)*; 12 MONTHS $125,000

BOGORAD, LAWRENCE; *METABOLISM OF PYRROLIC COMPOUNDS - PHOTOREGULATORY MECHANISMS IN BILIPROTEIN METABOLISM (PCM-7813251 A02)*; 12 MONTHS $54,850

PERO, JANICE; *CONTROL OF PHAGE SPOI TRANSCRIPTION (PCM-7821570 A02)*; 12 MONTHS $65,000

TAYLOR, D LANSING; *MOLECULAR CYTOCHEMISTRY OF CELL MOVEMENTS (PCM-7822499 A02)*; 12 MONTHS $45,181

PTASHNE, MARK; *GENE EXPRESSION (PCM-7823919 A02)*; 12 MONTHS $124,000

TAYLOR, C RICHARD; *ENVIRONMENTAL ENERGETICS: EXERCISE, HEAT AND WATER (PCM-7833319 A02)*; 12 MONTHS $63,902

ELGIN, SARAH C; *STRUCTURE, EVOLUTION, AND GENETICS OF CHROMOSOMAL PROTEINS OF DROSOPHILA (PCM-7823709 A02)*; 12 MONTHS $38,000

STROMINGER, JACK L; *PENICILLIN BINDING PROTEINS OF BACILLI (PCM-7824129 A02)*; 12 MONTHS $51,000

PAPPENHEIMER, ALWIN M; *BIOLOGY OF DIPHTHERIA AND OF THE DIPHTHERIA BACILLUS (PCM-7904914 A02)*; 12 MONTHS $49,000

DRESSLER, DAVID; *ISOLATION AND CHARACTERIZATION OF DNA SYNAPTASE (PCM-7912315 A01)*; 12 MONTHS $66,764

BLOCH, KONRAD; *COMPARATIVE ASPECTS OF STEROL METABOLISM IN ANIMALS AND PLANTS (PCM-7919881 A01)*; 12 MONTHS $34,020

KARPLUS, MARTIN; *PROBLEMS IN THEORETICAL CHEMISTRY: ELECTRONIC STRUCTURE AND DYNAMICS OF MOLECULES IN VACUUM AND IN SOLUTION (CHE-7920433 A01*)*; 12 MONTHS $46,000

WASSARMAN, PAUL M; *TUMOR VIRUS CHROMATIN: STRUCTURE AND REPLICATION (PCM-7923815 A01)*; 12 MONTHS $50,000

KLECKNER, NANCY; *TRANSLOCATABLE GENETIC ELEMENTS IN BACTERIA (PCM-7923508 A01)*; 12 MONTHS $60,000

RANDO, ROBERT R; *THRESHOLD EFFECTS AND MEMBRANE-MEMBRANE BINDING (PCM-7921721 A01)*; 12 MONTHS $47,000

BLOCH, KONRAD; *STEROL STRUCTURE AND FUNCTION (PCM-8003449 A01)*; 12 MONTHS $40,000

HASTINGS, J W; *BIOLUMINESCENCE: ENERGY CONVERSION IN BIOLOGICAL SYSTEMS: MOLECULAR MECHANISMS AND BIOCHEMICAL CONTROL OF BIOLUMINESCENT REACTIONS (PCM-8019504)*; 12 MONTHS $80,000

DEPAMPHILIS, MELVIN L; *INITIATION OF DNA REPLICATION IN TUMOR VIRUS CHROMOSOMES (PCM-8103993)*; 12 MONTHS $50,000

AUSUBEL, FREDERICK M; *MOLECULAR-GENETIC CHARACTERIZATION OF NITROGEN FIXING GENES IN KLEBSIELLA PNEUMONIAE (PCM-8104193)*; 12 MONTHS $55,000

AUSUBEL, FREDERICK M; *MOLECULAR AND DEVELOPMENTAL GENETICS OF SYMBIOTIC NITROGEN FIXATION (PCM-8104492)*; 12 MONTHS $57,135

AYERS, ARTHUR R; *MOLECULAR MECHANISMS RESPONSIBLE FOR DISEASE RESISTANCE (PCM-8109165)*; 12 MONTHS $37,065

PTASHNE, MARK; *THE SOS RESPONSE (PCM-8110168)*; 12 MONTHS $50,000

MANIATIS, THOMAS P; *NUCLEOTIDE SEQUENCES ADJACENT TO RABBIT GLOBIN GENES (PCM-8140048)*; 12 MONTHS $105,295

MANIATIS, THOMAS P; *NUCLEOTIDE SEQUENCES ADJACENT TO RABBIT GLOBIN GENES (PCM-8140048 A01)*; $62,895

HARVARD UNIVERSITY-HERBARIUM

GOLDSTEIN, RICHARD N; *REGULATION AND CAPSID SIZE DETERMINATION BY SATELLITE PHAGE P4 (PCM-8006276 A01)*; 12 MONTHS $50,000

MARINE BIOLOGICAL LABORATORY

INOUE, SHINYA; *BIOPHYSICAL ANALYSIS OF CELLULAR DEVELOPMENT (PCM-7922136 A01)*; 12 MONTHS $51,324

RUDERMAN, JOAN V; *REGULATION OF DIFFERENTIAL GENE EXPRESSION DURING EARLY DEVELOPMENT IN SPISULA (PCM-7923046 A01)*; 12 MONTHS $30,000

WALLACE, ROBIN A; *CORRELATED STUDIES ON FUNDULUS OOCYTE DEVELOPMENT (PCM-8022702)*; 36 MONTHS $30,451

COPELAND, DONALD E; *MULTIDISCIPLINARY RESEARCH ON DEEP SEA FISHES (PCM-8023166)*; 24 MONTHS $43,580

MASER, MORTON D; *ACQUISITION OF EQUIPMENT FOR A CENTRAL FACILITY FOR ELECTRON MICROSCOPY (PCM-8101086)*; 12 MONTHS $120,000

MASSACHUSETTS GENERAL HOSPITAL

TRELSTAD, ROBERT L, AND SILVER, FREDERICK H; *COLLAGEN FIBRILLOGENESIS-MOLECULAR AND CELLULAR STEPS (PCM-7818903 A02)*; 12 MONTHS $18,500

CORI, CARL F; *GENE EXPRESSION IN RAT HEPATOMA - MUTANT MOUSE HEPATOCYTE CELL HYBRIDS (PCM-8025507)*; 12 MONTHS $40,000

WARREN, CHRISTOPH D; *THE CHEMISTRY OF LIPID INTERMEDIATES (PCM-8111516)*; 12 MONTHS $35,000

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

BROWN, GENE M; *BIOSYNTHESIS OF B VITAMINS AND RELATED COMPOUNDS (PCM-7812147 A02)*; 12 MONTHS $71,000

KHORANA, H GOBIND; *CHEMICAL AND BIOLOGICAL STUDIES OF MEMBRANES (PCM-7813713 A02)*; 12 MONTHS $100,000

SOLOMON, EDWARD I; *SPECTROSCOPIC AND MAGNETIC STUDIES ON METALLOPROTEIN ACTIVE SITES (PCM-7813714 A02)*; 12 MONTHS $47,000

SOLOMON, EDWARD I; *SPECTROSCOPIC AND MAGNETIC STUDIES ON METALLOPROTEIN ACTIVE SITES (PCM-7813714 A03)*; $10,019

CHEN, SOW-HSIN; *QUASI-ELASTIC LIGHT-SCATTERING STUDIES OF MOTILITY OF CELLS AND AGGREGATION OF MACROMOLECULES (PCM-7815844 A01)*; 3 MONTHS $2,000

SHARP, PHILIP A; *GENE REGULATION IN MAMMALIAN CELLS (PCM-7823230 A02)*; 12 MONTHS $60,027

LODISH, HARVEY F; *TRANSCRIPTIONAL AND TRANSLATIONAL CONTROL OF DICTYOSTELIUM DIFFERENTIATION (PCM-7900839 A02)*; 12 MONTHS $143,000

COHEN, DAVID, AND CUFFIN, B N; *USING THE MEG TO LOCALIZE SOURCES IN THE CORTEX (PCM-7910064 A02)*; 12 MONTHS $99,355

ROBERTS, MARY F; *PHOSPHOLIPID CONFORMATION IN MODEL MEMBRANES (PCM-7912622 A01)*; 12 MONTHS $38,000

YOUNG, VERNON R; *BIOAVAILABILITY OF SELENIUM AND ZINC IN PROCESSED HUMAN FOODS BASED ON SOY PROTEIN STUDIES USING ISOTOPE TRACERS (PCM-7919113 A02)*; 12 MONTHS $86,822

WALSH, C T; *MEMBRANE-ASSOCIATED OXIDATIVE ENZYMES: PURIFICATION AND DESIGN OF SPECIFIC INACTIVATORS (PCM-7922610 A01)*; 12 MONTHS $37,000

BUCHANAN, JOHN M; *AMINO ACID, POLYPEPTIDE AND NUCLEOTIDE METABOLISM (PCM-8002368)*; 12 MONTHS $50,000

ORME JOHNSON, W H; *COMPONENTS AND PATHWAYS OF BIOLOGICAL NITROGEN FIXATION (PCM-8008733 A01)*; 12 MONTHS $83,334

KING, JONATHAN A; *GENETIC ANALYSIS OF THE FOLDING AND MATURATION OF THE TAIL SPIKE PROTEIN OF BACTERIOPHAGE P22 (PCM-8011661)*; 12 MONTHS $55,000

ROBBINS, PHILLIPS W; *CELL CULTURE CENTER (PCM-8012314 A01)*; 12 MONTHS $280,000

BENEDEK, GEORGE B, AND COHEN, RICHARD J; *STUDY OF THE N-PARTICLE DISTRIBUTIONS FOR MACROMOLECULAR AGGREGATES (PCM-8013659 A01)*; 12 MONTHS $53,000

MAGASANIK, BORIS; *REGULATION OF THE METABOLIC PROCESSES OF THE SINGLE CELL AT THE MOLECULAR LEVEL (PCM-8104544)*; 12 MONTHS $80,000

LURIA, SALVADOR E; *BIOCHEMICAL ACTIONS OF COLICINS (PCM-8108866)*; 12 MONTHS $70,000

CHEN, SOW-HSIN; *SCATTERING TECHNIQUES APPLIED TO SUPRAMOLECULAR STRUCTURES AND CELL MOTIONS (PCM-8111594)*; 12 MONTHS $60,000

MCLEAN HOSPITAL

HAUSER, GEORGE; *INTERRELATIONSHIP OF CELL SURFACE RECEPTORS AND PHOSPHOLIPID METABOLISM (PCM-7824367 A01)*; 12 MONTHS $53,300

SIDNEY FARBER CANCER INSTITUTE INC

STROMINGER, JACK L; *ANALYSIS OF PUTATIVE TRANSFORMING SEQUENCES IN RECOMBINANT EBV DNA MOLECULES (PCM-8104300)*; 12 MONTHS $25,000

PARDEE, ARTHUR B; *MULTIENZYME COMPLEX FOR MAMMALIAN CELL DNA SYNTHESIS (PCM-8109774)*; 12 MONTHS $60,000

SIMMONS COLLEGE

BERLINER, MARTHA D; *IPA MOBILITY ASSIGNMENT (MARTHA BERLINER) (PCM-8101810)*; 19 MONTHS $56,262

BERLINER, MARTHA D; *IPA MOBILITY ASSIGNMENT (MARTHA BERLINER) (PCM-8101810 A01)*; 13 MONTHS $3,596

TUFTS UNIVERSITY-SCHOOL OF MEDICINE

STOLLAR, B DAVID; *IMMUNOCHEMICAL STUDIES OF NUCLEIC ACIDS, HISTONES AND CHROMATIN (PCM-7904057 A02)*; 12 MONTHS $50,000

OFNER, PETER; *CHARACTERIZATION OF PROSTATIC HYDROXYLATIONS OF 5A-ANDROSTANE-3B,17B-DIOL (PCM-7904073 A01)*; 12 MONTHS $54,200

GOLDBERG, EDWARD B; *RESTRICTION ENZYME ACTIVITY IN VITRO AND IN VIVO (PCM-7910514 A01)*; 12 MONTHS $43,000

LEVY, STUART B; *R PLASMID PROTEINS: ROLE IN DNA REPLICATION, EXPRESSION AND TRANSFER (PCM-8013480)*; 12 MONTHS $25,000

BRAWERMAN, GEORGE; *THE CONTROL OF MESSENGER RNA STABILITY IN MAMMALIAN CELLS (PCM-8020712)*; 12 MONTHS $50,000

UNDERHILL, CHARLES B; *BINDING SITES FOR HYALURONATE ON THE CELL SURFACE (PCM-8100277)*; 12 MONTHS $26,738

OFNER, PETER; *PURCHASE OF HIGH-PERFORMANCE GRADIENT LIQUID CHROMATOGRAPH (PCM-8100311)*; 12 MONTHS $17,865

HUBER, BRIGITTE T; *B CELL DIFFERENTIATION ANTIGENS: STRUCTURE AND ASSEMBLY (PCM-8109766)*; 24 MONTHS $90,000

TUFTS UNIVERSITY

KING, JOAN C; *THE LHRH SYSTEM AND REPRODUCTIVE FUNCTION (PCM-8103243);* 12 MONTHS $45,000

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

MCGUIRE, ROBERT F; *MEMBRANE AND CYTOSKELETON (PCM-7818053 A02);* 12 MONTHS $45,000

SINGER, JOSHUA J, AND WALSH, JOHN V; *PROPERTIES OF FRESHLY ISOLATED SINGLE SMOOTH MUSCLE CELLS (PCM-7904938 A02);* 12 MONTHS $43,270

UNIVERSITY OF MASSACHUSETTS, AMHERST

KUNKEL, JOSEPH G, AND NORDIN, JOHN H; *THE ROLE OF OLIGOSACCHARIDE STRUCTURE IN VITELLOGENESIS (PCM-7903653 A02);* $11,500

NORDIN, JOHN H; *STRUCTURE AND BIOSYNTHESIS OF FUNGAL CELL WALL POLYSACCHARIDES (PCM-7910970 A02);* 12 MONTHS $35,000

FULLER, R C; *THE ASSEMBLY OF A UNIQUE PHOTOCHEMICAL ENERGY TRANSDUCING SYSTEM (PCM-7915326 A01);* 12 MONTHS $49,000

BURGGREN, WARREN W; *ONTOGENY OF AERIAL GAS EXCHANGE IN BIMODAL BREATHERS (PCM-8003752 A01);* 12 MONTHS $37,000

FORD, NORMAN C, LANGLEY, KENNETH H, AND KARASZ, FRANK E; *LASER LIGHT SCATTERING FROM BIOLOGICAL AND SYNTHETIC MACROMOLECULES (PCM-8021136);* 12 MONTHS $63,000

MASON, THOMAS L; *BIOGENESIS OF MITOCHONDRIAL RIBOSOMES IN YEAST (PCM-8022152);* 12 MONTHS $55,000

WOODCOCK, CHRIS L; *STRUCTURE OF NATIVE CHROMATIN (PCM-8104079);* 24 MONTHS $100,000

ZIMMERMANN, ROBERT A; *STRUCTURE OF PROTEIN BINDING SITES IN RIBOSOMAL RNA (PCM-8110885);* 12 MONTHS $43,000

WELLESLEY COLLEGE

ALLEN, MARY M; *THE METABOLISM OF NITROGEN STORAGE PROTEINS IN NON-NITROGEN FIXING CYANOBACTERIA (PCM-8004529 A01);* 12 MONTHS $32,000

WOODS HOLE OCEANOGRAPHIC INSTITUTION

MANN, ROGER L; *BIOLOGY OF SHIPS' BALLAST WATER: THE ROLE OF BALLAST WATER IN THE TRANSOCEANIC DISPERSAL OF MARINE ORGANISMS (PCM-8008450);* 12 MONTHS $75,004

MARCUS, NANCY H; *THE 1981 NORTHEAST REGIONAL CONFERENCE ON DEVELOPMENTAL BIOLOGY, MARCH 6-8, 1981 AT WOODS HOLE, MASSACHUSETTS (PCM-8021371);* 12 MONTHS $2,000

MARCUS, NANCY H; *THE DETERMINATION AND EXPRESSION OF ASYMMETRY IN THE SEA URCHIN (PCM-8105147);* 24 MONTHS $60,204

WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY

CASPI, ELIAHU; *ENZYMATIC HYDROXYLATION OF METHYL GROUPS (PCM-7800582 A02);* $9,000

GUT, MARCEL; *SYNTHESES OF BILE ACIDS (PCM-7819594 A01);* 12 MONTHS $44,000

HALL, PETER F; *SPERMATID METABOLISM: INFLUENCE OF TEMPERATURE (PCM-8015511 A01);* 12 MONTHS $55,000

HALL, PETER F, BERGER, EDWARD A, TREISTMAN, STEVEN N, AND VALLEE, RICHARD B; *ACQUISITION OF A FLUORESCENCE MICROSCOPE: APPLICATION TO PROBLEMS IN CELL BIOLOGY (PCM-8022002);* 12 MONTHS $60,000

WORCESTER POLYTECHNIC INSTITUTE

GILES, KENNETH L; *DEVELOPMENT OF AN IN VITRO TI PLASMID - MEDIATED HIGH FREQUENCY TRANSFORMATION SYSTEM FOR HIGHER PLANT PROTOPLASTS (PCM-8003807 A01);* $9,712

MICHIGAN

GRAND VALLEY STATE COLLEGES

STRICKLER, TIMOTHY L; *ELECTROMYOGRAPHICAL INVESTIGATIONS OF SHOULDER MUSCLE FUNCTION (PCM 8108931);* 12 MONTHS $16,961

HENRY FORD HOSPITAL

SHORE, JOSEPH D; *MECHANISM OF ACTION OF DEHYDROGENASES (PCM-7826199 A02);* 12 MONTHS $25,000

MICHIGAN STATE UNIVERSITY

ZEEVAART, JAN D; *SYNTHESIS, METABOLISM AND LOCATION OF ABSCISIC ACID IN RELATION TO WATER STRESS IN PLANTS (PCM-7807653 A02);* 12 MONTHS $30,553

MAGEE, PAUL T; *REGULATION OF MEIOSIS AND ASCOSPORE FORMATION (PCM-7812581 A04);* $10,541

BANDURSKI, ROBERT S; *METABOLISM OF MICROORGANISMS AND HIGHER PLANTS (PCM-7904637 A01);* 12 MONTHS $103,221

LANG, ANTON; *HORMONE-LIKE INHIBITORS OF FLOWER FORMATION (PCM-7910791);* 24 MONTHS $56,736

AUST, STEVEN D; *LIPID PEROXIDATION (PCM-7915328 A01);* 12 MONTHS $38,302

UFFEN, ROBERT L; *DIVERSITY AMONG AQUATIC MICROORGANISMS IN ANAEROBIC ENVIRONMENTS (PCM-7918135 A01);* 12 MONTHS $56,292

TOLBERT, NATHAN E; *LEAF PEROXISOMES AND PHOTORESPIRATION (PCM-8005917);* 12 MONTHS $73,142

WANG, JOHN L; *LECTIN RECEPTORS AND CYTOSKELETAL PROTEINS IN CELLS OF LEGUMINOUS PLANTS (PCM-8011736 A01);* 12 MONTHS $37,713

BREZNAK, JOHN A; *BIOCHEMICAL BASES FOR SYMBIOSIS BETWEEN INTESTINAL ORGANISMS AND THEIR HOST (PCM-8012026 A01);* 12 MONTHS $38,548

PATTERSON, RONALD J; *RNA PROCESSING AND TRANSPORT IN ISOLATED NUCLEI (PCM-8020326);* 24 MONTHS $60,000

MAGEE, PAUL T; *REGULATION OF MEIOSIS AND ASCOSPOROGENESIS IN YEAST (PCM-8020963);* 24 MONTHS $100,000

KUNG, HSING-JIE; *THE MOLECULAR BASIS OF RETROVIRUS INDUCED AVIAN LYMPHOID LEUKOSIS (PCM-8021839);* 12 MONTHS $55,000

DAZZO, FRANK B; *BIOCHEMISTRY OF LECTIN RECEPTORS IN THE RHIZOBIUM-CLOVER SYMBIOSIS (PCM-8021906);* 12 MONTHS $45,000

ARNTZEN, CHARLES J; *STRUCTURAL ORGANIZATION OF CHLOROPLAST MEMBRANES (PCM-8023031);* 12 MONTHS $60,000

SCHEFFER, ROBERT P; *PATHOGEN-PRODUCED TOXINS AND HOST-SELECTIVE TOXICITY TO PLANTS (PCM-8100711);* 24 MONTHS $65,000

KENDE, HANS; *REGULATION OF PLANT GROWTH BY ETHYLENE (PCM-8109764);* 12 MONTHS $41,433

MILLER, JAMES R; *CHEMISTRY AND ORIGIN OF KAIROMONES PROMOTING HOST FINDING BY THE ONION FLY, HYLEMYA ANTIQUA (PCM-8110995);* 24 MONTHS $85,000

UNIVERSITY OF MICHIGAN-ANN ARBOR-MEDICAL SCHOOL

COON, MINOR J; *DETOXIFICATION OF HYDROCARBONS, DRUGS, AND RELATED COMPOUNDS (PCM-7614947 A04);* 12 MONTHS $87,400

SAVAGEAU, MICHAEL A; *FUNCTION, DESIGN AND EVOLUTION OF CELLULAR CONTROL SYSTEMS (PCM-7807635 A02);* 12 MONTHS $40,000

MASSEY, VINCENT; *MEETING SUPPORT FOR THE 7TH INTERNATIONAL SYMPOSIUM ON FLAVINS AND FLAVOPROTEINS; ANN ARBOR, MICHIGAN; JUNE 21-26, 1981 (PCM-8022747);* 12 MONTHS $8,000

CHRISTENSEN, A KENT; *ACQUISITION OF HIGH-RESOLUTION SCANNING ELECTRON MICROSCOPE (PCM-8100283);* 12 MONTHS $80,000

UNIVERSITY OF MICHIGAN-ANN ARBOR

SIEGEL, GEORGE J; *CATION REGULATION OF (NA,K)-ATPASE PHOSPHORYLATION (PCM-7805174 A01);* 14 MONTHS $39,177

KLEINSMITH, LEWIS J; *HORMONAL CONTROL OF ACTIN FORMATION IN THE OVARY (PCM-7815300 A02);* 12 MONTHS $64,400

NEIDHARDT, FREDERICK C, AND HELLING, ROBERT B; *IDENTIFICATION AND MAPPING OF ESCHERICHIA COLI PROTEINS (PCM-7822131 A02);* 12 MONTHS $120,000

MARTIN, MICHAEL M; *BIOCHEMICAL IMPLICATIONS OF INSECT MYCOPHAGY (PCM-7822733 A02);* 12 MONTHS $54,500

JONES, GEORGE H; *PROTEIN SYNTHESIS IN REGENERATING SKELETAL MUSCLE (PCM-7904260 A02);* 12 MONTHS $39,667

NOODEN, LARRY D; *HORMONAL CONTROL OF MONOCARPIC SENESCENCE IN SOYBEANS (PCM-7909434 A01);* 24 MONTHS $70,000

PHILLIES, GEORGE D; *DIFFUSION OF MACROMOLECULES UNDER NON-CLASSICAL CONDITIONS (CHE-7920389 A01*);* 12 MONTHS $15,500

KRIMM, SAMUEL; *SPECTROSCOPY OF BIOLOGICAL MACROMOLECULES (PCM-7921652 A01);* 12 MONTHS $55,000

DONEEN, BYRON A; *SEPARATION OF APICAL AND BASOLATERAL MEMBRANES IN BRANCHIAL CHLORIDE CELLS (PCM-7922985 A01);* $8,069

SAVAGEAU, MICHAEL A; *CHROMOSOME STRUCTURE OF BACTERIOPHAGE P22 (PCM-8003839 A01);* 6 MONTHS $17,333

WEBB, PAUL W; *PRINCIPLES OF PREDATION IN TELEOST FISHES (PCM-8006469 A01);* 12 MONTHS $40,000

MALVIN, RICHARD L; *CONTROL OF RENAL HORMONES (PCM-8019709);* 12 MONTHS $47,067

KAUFMAN, PETER B; *SILICA IN C3 AND C4 GRASSES (PCM-8023923);* 24 MONTHS $79,978

DONEEN, BYRON A; *ACQUISITION OF SPECIALIZED EQUIPMENT (PCM-8100295);* 12 MONTHS $20,000

BORER, KATARINA T; *ACCELERATION OF GROWTH BY EXERCISE AND NUTRITION (PCM-8104375);* 12 MONTHS $49,138

KRIMM, SAMUEL; *ACQUISITION OF RAMAN SPECTROMETER (DMR-8106236*);* 12 MONTHS $20,000

WAYNE STATE UNIVERSITY-SCHOOL OF MEDICINE

BAGSHAW, JOSEPH C; *ORGANIZATION AND EXPRESSION OF HISTONE GENES (PCM-8111485);* 24 MONTHS $80,000

WAYNE STATE UNIVERSITY

PHILLIPS, HERBERT M; *GERM-LAYER AND EXTRACELLULAR-MATRIX MECHANICS IN INITIAL CHICK-LIMB-BUD FORMATION (PCM-7805903 A02);* $960

ARKING, ROBERT; *GENETIC ANALYSIS OF PATTERN FORMATION IN DROSOPHILA (PCM-7813290 A01);* 24 MONTHS $66,000

IZAWA, SEIKICHI; *BIOENERGETICS OF PHOTOSYNTHESIS (PCM-7922576 A01);* 12 MONTHS $65,001

EVANS, DAVID R; *ACQUISITION OF AN AMINO ACID ANALYZER (PCM-8100279);* 12 MONTHS $25,000

SIEGEL, ALBERT; *HETEROGENEITY OF PLANT RIBOSOMAL DNAS (PCM-8104496);* 12 MONTHS $40,000

MINNESOTA

UNIVERSITY OF MINNESOTA-AGRICULTURAL EXPERIMENT STATION

GENGENBACH, BURLE G; *DEVELOPMENTAL AND MOLECULAR BIOLOGY OF MAIZE (PCM-7912069 A02);* 12 MONTHS $109,703

UNIVERSITY OF MINNESOTA-GRAY FRESHWATER BIOLOGICAL INSTITUTE

HANSON, RICHARD S; *METHYLOTROPHIC BACTERIA: ISOLATION AND CHARACTERIZATION (PCM-8114325);* 9 MONTHS $15,450

UNIVERSITY OF MINNESOTA-MEDICAL SCHOOL

ROSENBERG, ANDREAS; *SYSTEMS APPROACH TO PROTEIN STRUCTURE (PCM-8003744 A01)*; 12 MONTHS $50,000

THOMAS, DAVID D; *MOLECULAR DYNAMICS OF MUSCLE CONTRACTION (PCM-8004612 A01)*; 12 MONTHS $55,500

SHIER, WAYNE T; *ACTIVATABLE CELLULAR PHOSPHOLIPASE A2 (PCM-8011784 A01)*; 12 MONTHS $50,000

LIVINGSTON, DENNIS M; *CONTROL OF DNA REPLICATION IN THE CELL CYCLE OF YEAST (PCM-8021893)*; 12 MONTHS $50,000

UNIVERSITY OF MINNESOTA

BLOOMFIELD, VICTOR A; *HYDRODYNAMICS OF COMPLEX BIOLOGICAL MACROMOLECULES (PCM-7806777 A02)*; 12 MONTHS $30,000

BRENNER, MARK L; *ANALYSIS OF APICAL DOMINANCE IN RELATIONSHIP TO ENDOGENOUS HORMONES AND THEIR TRANSPORT (PCM-7813255 A02)*; 12 MONTHS $33,100

HOWARD, JAMES B; *STRUCTURE OF FE-S CENTERS IN MOFE-AND FE-PROTEINS OF NITROGENASE (PCM-7816278 A02)*; 12 MONTHS $38,000

WOOD, JOHN M; *MICROBIAL DEGRADATION AND METABOLIC CYCLES (PCM-7820461 A02)*; 12 MONTHS $70,000

MUNCK, ECKARD; *MOSSBAUER SPECTROSCOPY ON NITROGENASE COMPONENTS (PCM-8005610 A01)*; 12 MONTHS $75,000

HOOPER, ALAN B; *BIOCHEMISTRY OF NITRIFICATION IN NITROSOMONAS: HYDROXYLAMINE OXIDOREDUCTASE (PCM-8008710 A01)*; 12 MONTHS $62,000

BROOKS, MARION A; *NEOPLASTIC INSECT CELLS IN VITRO (PCM-8012013 A01)*; 12 MONTHS $44,994

OVEREND, JOHN; *AMINO ACID AND PEPTIDE ANALYZER INSTRUMENTATION (PCM-8019321*)*; 12 MONTHS $25,540

WARNER, HUBER R; *METABOLISM OF DNA (PCM-8109637)*; 12 MONTHS $55,000

MESSING, JOACHIM W; *WORKSHOP ON APPROACHES TO UNDERSTAND DNA STRUCTURE; SEPTEMBER 14-18, 1981; ST PAUL, MINNESOTA (PCM-8116400)*; 6 MONTHS $2,000

UNIVERSITY OF MINNESOTA AT DULUTH

HALLER, EDWIN W; *HORMONAL REGULATION OF METABOLISM IN GENETIC OBESITY (PCM-8003740 A01)*; 12 MONTHS $49,764

DOWNING, STEPHEN W; *HAGFISH EPIDERMIS: A MODEL SYSTEM FOR THE STUDY OF MUCUS AND SECRETORY CELLS (PCM-8011775 A01)*; 12 MONTHS $57,071

UNIVERSITY OF MINNESOTA AT SAINT PAUL

LABUZA, THEODORE P; *NUTRIENT LOSSES IN PASTA UNDER CONSTANT AND FLUCTUATING CONDITIONS (PCM-7910370 A02)*; 18 MONTHS $66,055

NELSESTUEN, GARY L; *ALTERNATIVES TO PROTEINS AND NUCLEIC ACIDS (PCM-8002362 A01)*; 12 MONTHS $28,000

HACKETT, PERRY B; *ORGANIZATION OF RIBOSOMAL PROTEIN GENES IN MAMMALS (PCM-8010975)*; 12 MONTHS $60,000

MISSISSIPPI

UNIVERSITY OF MISSISSIPPI-UNIVERSITY OF MISSISSIPPI MEDICAL CENTER

SRIDHARA; S; *STUDIES ON INSECT RNA POLYMERASES (PCM-7903276 A01)*; 12 MONTHS $40,000

CLEM, L WILLIAM; *IMMUNOLOGIC STUDIES WITH ECTOTHERMIC VERTEBRATES (PCM-7904954 A02)*; 12 MONTHS $50,000

RHOADES, MARCUS M; *ORIGIN AND FUNCTION OF SINGLE-CHAIN INTERRUPTIONS IN BACTERIOPHAGE DNA (PCM-8105589)*; 24 MONTHS $80,943

MISSOURI

JEWISH HOSPITAL OF ST LOUIS

ARANEO, BARBARA A; *MECHANISMS OF SUPPRESSION IN GENETICALLY CONTROLLED IMMUNE RESPONSES (PCM-8021809)*; 12 MONTHS $52,685

KIRKSVILLE COLLEGE OF OSTEOPATHIC MEDICINE

ISAAK, DALE D; *MURINE LEUKEMIA VIRUS - TARGET CELL INTERACTIONS (PCM-7922943 A01)*; 12 MONTHS $32,951

KEHL, HORST; *INTERNATIONAL SYMPOSIUM ON THE CHEMISTRY AND PHARMACOLOGY OF HYDROXAMIC ACIDS, MAY 20-20, 1981, CENTRAL & GREAT LAKES, AMERICAN CHEMICAL SOCIETY, DAYTON, OHIO (PCM-8016754)*; 12 MONTHS $1,500

ST LOUIS UNIVERSITY-SCHOOL OF MEDICINE

COSCIA, CARMINE J; *ALKALOID BIOSYNTHESIS IN HIGHER PLANTS (PCM-8011471)*; 12 MONTHS $54,920

ST LOUIS UNIVERSITY

MARRS, BARRY L; *ENERGY TRANSDUCING BACTERIAL MEMBRANES (PCM-7827034 A02)*; 12 MONTHS $48,350

UNIVERSITY OF MISSOURI, COLUMBIA

CHIPPENDALE, G MICHAEL; *ENDOCRINE REGULATION OF INSECT DIAPAUSE (PCM-7822488 A01)*; 24 MONTHS $75,314

WALL, JUDY D; *GENETICS AND REGULATION OF NITROGEN FIXATION IN RHODOPSEUDOMONAS CAPSULATA (PCM-7904223 A01)*; 12 MONTHS $52,949

ZATZMAN, MARVIN L; *CARDIOVASCULAR AND RENAL CONTROL IN HIBERNANTS (PCM-7912322 A02)*; 12 MONTHS $47,300

NEUFFER, M G; *GENETIC AND EMBRYO CULTURE STUDIES OF DEFECTIVE MAIZE KERNEL MUTANTS (PCM-8005709 A01*)*; 12 MONTHS $40,000

POLACCO, JOSEPH C; *PHYSIOLOGY AND MOLECULAR GENETICS OF THE UREOLYTIC ENZYMES OF SOYBEAN (PCM-8010934 A01)*; 12 MONTHS $45,011

NEUFFER, M G; *COLLABORATIVE RESEARCH ON DEVELOPMENTAL, GENETIC AND PHYSIOLOGICAL CONSTRAINTS ON LEAF LESION FORMATION (PCM-8026847)*; 24 MONTHS $17,505

WISE, KIM S; *MEMBRANE EVENTS IN MYCOPLASMA-HOST, CELL INTERACTIONS (PCM-8104512)*; 24 MONTHS $80,000

WALBOT, VIRGINIA; *DEVELOPMENTAL, GENETIC AND PHYSIOLOGICAL CONSTRAINTS ON LEAF LESION FORMATION (PCM-8115441)*; 18 MONTHS $44,171

WASHINGTON UNIVERSITY-SCHOOL OF MEDICINE

MATHEWS, F S; *CRYSTALLOGRAPHIC STUDIES OF B-TYPE CYTOCHROME ELECTRON TRANSPORT SYSTEMS (PCM-7922708 A01)*; 12 MONTHS $45,000

GLASER, LUIS; *EMBRYONAL CELL SURFACE RECOGNITION (PCM-8011473)*; 12 MONTHS $50,000

GLASER, LUIS; *EMBRYONAL CELL SURFACE RECOGNITION (PCM-8011473 A01)*; 12 MONTHS $50,000

SCHLESSINGER, DAVID; *E COLI PRE-RRNA PROCESSING AND TRANSCRIPTION-TRANSLATION COUPLING (PCM-8017402)*; 12 MONTHS $44,000

SCHLESINGER, MILTON J; *ACQUISITION OF EQUIPMENT FOR FATTY ACID ACYLATION OF VIRUS GLYCOPROTEINS (PCM-8021685)*; 12 MONTHS $25,000

WASHINGTON UNIVERSITY

KOHL, DANIEL H; *NITROGEN ISOTOPE FRACTIONATION AND THE RELATIVE RATES OF NITROGEN TRANSFORMATIONS (PCM-7823270 A01)*; 12 MONTHS $70,000

SILVER, SIMON D; *BACTERIAL CATION AND ANION TRANSPORT SYSTEM (PCM-7903986 A01)*; 12 MONTHS $65,016

BEACHY, ROGER N; *REGULATION OF STORAGE PROTEIN SYNTHESIS DURING THE DEVELOPMENT OF THE SOYBEAN SEED (PCM-7911763 A02)*; 12 MONTHS $48,265

COLBURN, THERESE M, AND THACH, ROBERT E; *MESSENGER - RNA DISCRIMINATION IN AN IN VITRO PROTEIN SYNTHESIZING SYSTEM (PCM-7911936 A01)*; 12 MONTHS $45,000

BANASZAK, LEONARD J; *STRUCTURE-FUNCTION STUDIES OF DEHYDROGENASES (PCM-7921864 A01)*; 12 MONTHS $52,000

VARNER, JOSEPH E; *HYDROXYPROLINE METABOLISM IN WOUNDED PLANT TISSUE (PCM-7923550)*; 24 MONTHS $48,634

GOODENOUGH, URSULA W; *UNSTABLE GENETIC ELEMENTS IN CHLAMYDOMONAS (PCM-8008716)*; 12 MONTHS $33,837

WALBOT, VIRGINIA; *COLLABORATIVE RESEARCH ON THE DEVELOPMENTAL, GENETIC AND PHYSIOLOGICAL CONSTRAINTS ON LEAF LESION FORMATION (PCM-8017716)*; 24 MONTHS $60,000

KIRK, DAVID L; *ACQUISITION OF TRANSMISSION ELECTRON MICROSCOPE (PCM-8100813)*; 12 MONTHS $120,000

VARNER, JOSEPH E; *CONTROL OF THE SYNTHESIS OF HYDROXYPROLINE-RICH CELL WALL PROTEIN IN PLANTS (PCM-8104516)*; 12 MONTHS $50,201

ELGIN, SARAH C; *STRUCTURE, EVOLUTION, AND GENETICS OF CHROMOSOMAL PROTEINS OF DROSOPHILA (PCM-8116712)*; 12 MONTHS $35,557

MONTANA

MONTANA STATE UNIVERSITY

STROBEL, GARY A; *MECHANISMS MAINTAINING THE PATHOGENIC STATE OF PLANT PARASITES (PCM-7619565 A03)*; $8,400

UNIVERSITY OF MONTANA

KILGORE, DELBERT L; *PHYSIOLOGICAL RESPONSES OF BIRDS TO HYPERCARBIC HYPOXIC ENVIRONMENTS (PCM-7911722 A01)*; 12 MONTHS $34,939

WAITE, MARILYNN R; *NA, K AND THE TRANSFORMED PHENOTYPE (PCM-8112095)*; 24 MONTHS $55,500

SHAFIZADEH, FRED; *BIOMATERIALS FROM SAGEBRUSH (PCM-8112585)*; 12 MONTHS $52,693

NEBRASKA

CREIGHTON UNIVERSITY

ROBERTS, JANE C; *PHYSIOLOGICAL REGULATION DURING HIBERNATION AND AROUSAL: EFFECTS ON OXIDATIVE METABOLISM (PCM-8021895)*; 24 MONTHS $80,000

UNIVERSITY OF NEBRASKA AT LINCOLN

KNOCHE, HERMAN W; *CHEMICAL NATURE OF HOST-SPECIFIC PATHOTOXINS PRODUCED BY PLANT PATHOGENS (PCM-7920685 A01)*; 12 MONTHS $31,000

PARKHURST, LAWRENCE J; *NEW HYBRID HEMOGLOBINS: FUNCTIONAL ASPECTS OF SUBUNIT INTERACTIONS (PCM-8003655 A01)*; 12 MONTHS $58,000

WAGNER, FRED W; *A HIGH RESOLUTION SPECTROPHOTOMETER (PCM-8010766)*; 12 MONTHS $30,000

SCHUSTER, SHELDON M; *STRUCTURE AND CONTROL OF HEART ATP SYNTHETASE (PCM-8021553)*; 12 MONTHS $45,000

DAVIES, ERIC; *PROTEIN SYNTHESIS IN WOUNDED PLANT TISSUES (PCM-8109885);* 24 MONTHS $45,000

UNIVERSITY OF NEBRASKA MEDICAL CENTER AT OMAHA

RAMALEY, JUDITH A; *PHYSIOLOGY OF THE PREPUBERTAL PERIOD IN THE RAT (PCM-7903252 A01);* 12 MONTHS $53,800

NEVADA

UNIVERSITY OF NEVADA, RENO

HARRINGTON, RODNEY E; *OPTICAL AND HYDRODYNAMIC STUDIES UPON CHROMATIN (PCM-7905609 A02);* 12 MONTHS $47,000

WINICOV, ILGA B; *HETEROGENEOUS NUCLEAR RNA PROCESSING (PCM-7922207 A01);* 12 MONTHS $35,000

NEW HAMPSHIRE

DARTMOUTH COLLEGE

SPIEGEL, EVELYN S, AND SPIEGEL, MELVIN; *ALTERNATIVE PATHWAYS OF DEVELOPMENT IN REAGGREGATION SEA URCHIN EMBRYOS (PCM-7823241 A02);* 12 MONTHS $55,000

JACKSON, WILLIAM T; *HAEMANTHUS SPINDLE STRUCTURE AND FUNCTION (PCM-8002357 A01);* 12 MONTHS $49,935

SPIEGEL, MELVIN; *IN VIVO STUDIES OF CELL ADHESION AND GASTRULATION (PCM-8021631);* 12 MONTHS $65,000

SLOBODA, ROGER D; *MICROTUBULE DIRECTIONALITY IN THE MITOTIC APPARATUS (PCM-8021976);* 12 MONTHS $49,616

DARTMOUTH COLLEGE-DARTMOUTH MEDICAL SCHOOL

MCCANN, FRANCES V; *ELECTROPHYSIOLOGY OF INVERTEBRATE HEART CELLS (PCM-7723795 A03);* 6 MONTHS $8,000

JACOBS, NICHOLAS J; *MECHANISM AND REGULATION OF MICROBIAL PROTOPORPHYRINOGEN OXIDATION (PCM-7919520 A01);* 12 MONTHS $27,197

LUBIN, MARTIN; *MONOVALENT CATIONS, CELL MEMBRANES, AND CELL GROWTH (PCM-8022048);* 12 MONTHS $50,000

SOKOL, HILDA W; *INTERNATIONAL SYMPOSIUM ON THE BRATTLEBORO RAT; HANOVER, NEW HAMPSHIRE; SEPTEMBER 5-7, 1981 (PCM-8104026);* 12 MONTHS $4,500

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

BLAKEMORE, RICHARD P; *MAGNETISM IN BACTERIA (PCM-7922224 A01);* 12 MONTHS $25,000

PISTOLE, THOMAS G; *ROLE OF AMEBOCYTES AND LECTINS IN HOST DEFENSES OF LIMULUS POLYPHEMUS (PCM-8022074);* 24 MONTHS $78,123

NEW JERSEY

COLLEGE OF MEDICINE & DENTISTRY OF NEW JERSEY

ROTHSTEIN, RODNEY J; *MECHANISMS OF GENOMIC REARRANGEMENTS IN YEAST (PCM-8003805 A01);* 12 MONTHS $60,000

GHOSH, BIJAN K; *IMMUNOLOCALIZATION OF SECRETORY PROTEINS IN BACTERIAL CELLS (PCM-8110613);* 24 MONTHS $100,406

COLLEGE OF MEDICINE & DENTISTRY OF NEW JERSEY-NEW JERSEY MEDICAL SCHOOL

CHRISTAKOS, SYLVIA; *KIDNEY AND VITAMIN D REGULATED CALCIUM HOMEOSTASIS (PCM-8103421);* 12 MONTHS $43,000

COLLEGE OF MEDICINE & DENTISTRY OF NEW JERSEY-RUTGERS MEDICAL SCHOOL

SCHIMMEL, RICHARD J; *ALPHA ADRENERGIC REGULATION OF BROWN ADIPOSE TISSUE (PCM-8106263);* 24 MONTHS $106,820

SILVER, FREDERICK H; *COLLAGEN FIBRILLOGENESIS-MOLECULAR AND CELLULAR STEPS (PCM-8118268);* 7 MONTHS $9,923

FAIRLEIGH DICKINSON UNIVERSITY-TEANECK CAMPUS

LESK, ARTHUR M; *THE STRUCTURE, FUNCTION AND EVOLUTION OF PROTEINS: STRUCTURAL AND THERMODYNAMIC ANALYSIS (PCM-8012007 A01);* 12 MONTHS $28,289

PRINCETON UNIVERSITY

SHIMOMURA, OSAMU, AND JOHNSON, FRANK H; *BIOCHEMISTRY OF LUMINESCENCE (PCM-7822959 A02*);* 12 MONTHS $80,000

SHIMOMURA, OSAMU; *BIOCHEMISTRY OF LUMINESCENCE (PCM-7822959 A03);* $12,000

MILCH, JAMES R; *DYNAMIC X-RAY DIFFRACTION STUDIES OF STRIATED MUSCLE (PCM-7906433 A02);* 12 MONTHS $45,000

FRESCO, JACQUES R, AND KLOTZ, LYNN C; *DNA AND CHROMOSOMES IN PROKARYOTES AND LOWER EUKARYOTES (PCM-8017146 A01);* 12 MONTHS $45,000

FRESCO, JACQUES R; *PHYSICAL BIOCHEMISTRY OF NUCLEIC ACIDS - ROLE OF NON STANDARD BASE PAIRS (PCM-8023706);* 12 MONTHS $80,001

COX, EDWARD C; *ACQUISITION OF A SCINTILLATION COUNTER (PCM-8100286);* 12 MONTHS $20,000

RUTGERS UNIVERSITY-COOK COLLEGE

KAHN, PETER C; *THE VOLUMETRIC PROPERTIES OF FOLDED GLOBULAR PROTEINS (PCM-8012349);* 12 MONTHS $60,000

RUTGERS UNIVERSITY-DOUGLASS COLLEGE

AXELROD, DAVID E; *FLOW CYTOMETER INSTRUMENT FOR ANALYSIS OF CELL PARAMETERS (PCM-8017828);* 12 MONTHS $50,000

RUTGERS UNIVERSITY-NEWARK CAMPUS

DAVIS, ROBERT F; *IONIC MECHANISMS OF SALT TOLERANCE IN WHEAT ROOTS (PCM-8104148);* 12 MONTHS $13,718

RUTGERS UNIVERSITY

MENDELSOHN, RICHARD; *RAMAN SPECTROSCOPIC STUDIES OF LIPID-PROTEIN INTERACTION (PCM-7907524 A02);* 12 MONTHS $27,152

ZILINSKAS, BARBARA A; *ACQUISITION OF SPECIALIZED SPECTRO-FLUOROMETRIC FACILITY FOR PHOTOBIOLOGICAL AND PROTEIN BIOCHEMISTRY STUDIES (PCM-8018740);* 12 MONTHS $40,000

SCANES, COLIN G, AND RABII, JAMSHID; *THE CONTROL OF GROWTH HORMONE SECRETION IN THE DOMESTIC FOWL (PCM-8022727);* 24 MONTHS $105,100

CHEN, TSEH A; *NUTRITION AND PATHOGENESIS OF SPIROPLASMAS (PCM-8023948);* 12 MONTHS $9,000

MAC KAY, VIVIAN L; *HORMONE RESPONSE IN YEAST (PCM-8110083);* 12 MONTHS $35,791

NEW MEXICO

NEW MEXICO STATE UNIVERSITY

HERMAN, CEIL A; *PROSTAGLANDIN SYNTHESIS IN NON-MAMMALIAN VERTEBRATES (PCM-8021878);* 24 MONTHS $60,000

UNIVERSITY OF NEW MEXICO-SCHOOL OF MEDICINE

WOOD, STEPHEN C; *METABOLISM AND FUNCTION IN NUCLEATED RED BLOOD CELLS (PCM-7724246 A02);* 12 MONTHS $31,908

HURWITZ, LEON; *CALCIUM ION CHANNELS IN SMOOTH MUSCLE (PCM-7824206 A02);* 12 MONTHS $42,700

BUSS, WILLIAM C; *STUDIES ON THE MECHANISM OF THE GLUCOCORTICOID INDUCED DECREASE IN THE ACTIVITY OF RAT THYMIC RNA POLYMERASE II (PCM-8003442 A01);* 12 MONTHS $35,000

UNIVERSITY OF NEW MEXICO

BACA, OSWALD G; *INTERACTION OF INTRACELLULAR PARASITES WITH MACROPHAGE-LIKE TUMOR CELL LINES (PCM-8010633 A01);* 12 MONTHS $49,649

NEW YORK

BOYCE THOMPSON INST FOR PLANT RESEARCH INC

SZALAY, ALADAR A; *CLONING NIF GENES WITH SYNTHETIC DNA PROBES (PCM-7820252 A02);* 12 MONTHS $38,686

SZALAY, ALADAR A; *MOLECULAR CLONING IN CYANOBACTERIA (PCM-8106755);* 24 MONTHS $60,000

MACKO, VLADIMIR; *CHARACTERIZATION OF TOXIN PRODUCED BY HELMINTHOSPORUM (PCM-8110376);* 12 MONTHS $3,500

BROOKHAVEN NATIONAL LABORATORY

KOETZLE, THOMAS F; *THE PROTEIN DATA BANK (PCM-8013028);* 12 MONTHS $75,000

SCHOENBORN, BENNO P; *NEUTRON SCATTERING ANALYSIS OF BIOLOGICAL STRUCTURES (PCM-8017259);* 12 MONTHS $175,650

SCHOENBORN, BENNO P; *DEVELOPMENT OF MULTILAYER MONOCHROMATORS AND POLARIZERS FOR NEUTRON AND X-RAY SCATTERING (PCM-8017261);* 12 MONTHS $70,000

ELZINGA, MARSHALL; *CONFERENCE ON METHODS OF PROTEIN SEQUENCE ANALYSIS - UPTON, NEW YORK; SEPTEMBER, 1981 (PCM-8104635);* 12 MONTHS $4,000

BROOKLYN COLLEGE

CHAMBERLAIN, JR, JOHN A; *LOCOMOTION IN NAUTILUS: A KEY TO THE BIOLOGY AND EVOLUTION OF FOSSIL CEPHALOPODS (PCM-8019064);* 24 MONTHS $52,280

CHILDRENS HOSPITAL OF BUFFALO

LEBENTHAL, EMANUEL; *CONTROL AND DEVELOPMENT OF ENTEROKINASE (PCM-8021817);* 12 MONTHS $48,692

CITY COLLEGE

CALLENDER, ROBERT; *RESONANCE RAMAN STUDIES OF BIOLOGICAL CHROMOPHORES (PCM-7902683 A02);* 12 MONTHS $68,000

COLD SPRING HARBOR LAB OF QUANTITATIVE BIOLOGY

BUKHARI, AHMAD I; *THE LIFE CYCLE OF BACTERIOPHAGE MU (PCM-7826710 A02);* 12 MONTHS $120,000

ROBERTS, RICHARD J; *RESTRICTION ENDONUCLEASES (PCM-7919882 A01*);* 12 MONTHS $70,000

ZIPSER, DAVID; *GENETICS OF HSV-1 TK EXPRESSION IN TRANSFORMED CELLS (PCM-8003727 A01);* 12 MONTHS $52,000

WATSON, JAMES D; *MITOCHONDRIAL GENES MEETING; MAY 12-15, 1981; COLD SPRING HARBOR, NEW YORK (PCM-8022645*);* 12 MONTHS $7,500

ZIPSER, DAVID; *ASPECTS OF PROKARYOTIC MOLECULAR GENETICS (PCM-8022805);* 24 MONTHS $100,000

STRATHERN, JEFFREY N; *ACQUISITION OF EQUIPMENT FOR THE REGULATION AND INTERCONVERSION OF YEAST MATING TYPES (PCM-8104145);* 12 MONTHS $64,845

HICKS, JAMES B; *PLANT MOLECULAR BIOLOGY WORKSHOP, JUNE 3-22, 1981, COLD SPRING HARBOR LAB, COLD SPRING HARBOR, NEW YORK 11724 (PCM-8104499);* 12 MONTHS $36,800

WATSON, JAMES D; *MOLECULAR AND CELLULAR CONTROL OF MUSCLE DEVELOPMENT MEETING, COLD SPRING HARBOR LABORATORY, COLD SPRING HARBOR, NEW YORK, SEPTEMBER 8-13, 1981 (PCM-8104528*);* 12 MONTHS $5,000

ROBERTS, RICHARD J, AND LINN, STUART M; *MEETING ON NUCLEASES; AUGUST 26-30, 1981; COLD SPRING HARBOR, NEW YORK (PCM-8107734*)*; 6 MONTHS $5,000

HEFFRON, FRED L; *MOLECULAR MECHANISM OF TRANSPOSITION (PCM-8140063*)*; 12 MONTHS $82,000

COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

MULLER-SCHWARZE, DIETLAND, AND SILVERSTEIN, ROBERT M; *STIMULI THAT RELEASE THE FLEHMEN RESPONSE (BNS-7821331 A02*)*; 12 MONTHS $25,000

CAMPBELL, WILBUR H; *THE STRUCTURE AND MECHANISM OF HIGHER PLANT NITRATE REDUCTASE (PCM-7915298 A01)*; $8,000

WALTON, DANIEL C; *THE BIOSYNTHESIS OF ABSCISIC ACID (PCM-8010935)*; 12 MONTHS $7,500

COLUMBIA UNIVERSITY-COLLEGE OF PHYSICIANS AND SURGEONS

KABAT, ELVIN A; *IMMUNOCHEMISTRY OF POLYSACCHARIDES (PCM-7681029 A04)*; 12 MONTHS $140,000

GOODMAN, REBA M; *GENETIC CONTROL MECHANISMS IN SALIVARY CHROMOSOMES (PCM-7912347 A02)*; 45 MONTHS $59,218

SAWYER, WILBUR H; *EVOLUTION OF NEUROHYPOPHYSIAL FUNCTIONS AMONG VERTEBRATES (PCM-8004076 A01)*; 12 MONTHS $53,200

STERLING, KENNETH, AND TALIADOUROS, GEORGE S; *THYROXINE BINDING PROTEIN AND HORMONE UTILIZATION (PCM-8100280)*; 24 MONTHS $120,000

KABAT, ELVIN A; *IMMUNOCHEMICAL STUDIES ON POLYSACCHARIDES (PCM-8102321)*; 12 MONTHS $197,000

HONIG, BARRY H; *THEORETICAL STUDIES OF BIOLOGICAL CHROMOPHORES (PCM-8118088)*; 12 MONTHS $68,000

COLUMBIA UNIVERSITY

TZAGOLOFF, ALEXANDER A; *MAPPING OF TRANSFER RNA AND RIBOSOMAL GENES IN MITOCHONDRIAL DNA (PCM-7816089 A02)*; 12 MONTHS $31,365

BENESCH, REINHOLD; *ALLOSTERIC EFFECTS AND SELF-ASSEMBLY IN NATIVE AND CHEMICALLY MODIFIED HEMOGLOBINS (PCM-7911610 A01)*; 12 MONTHS $49,751

MILLS, DONALD R; *MECHANISM OF ENZYME SYNTHESIS (PCM-7921109 A01)*; 12 MONTHS $55,000

BEYCHOK, SHERMAN; *PROTEIN FOLDING AND ASSEMBLY IN RELATION TO CELL FUNCTION (PCM-8005614 A01)*; 12 MONTHS $70,000

CANTOR, CHARLES R; *NUCLEOPROTEIN PACKAGING IN VIRUSES AND CHROMATIN (PCM-8006354 A01)*; 12 MONTHS $53,000

MANCINELLI, ALBERTO L; *SPECTRAL SENSITIVITY OF THE HIGH IRRADIANCE RESPONSES (PCM-8008747)*; 24 MONTHS $94,872

MAYLIE-PFENNING, MARIE F; *PLASMALEMMAL GLYCOCONJUGATES IN PREIMPLANTATION DEVELOPMENT (PCM-8012023 A01)*; 12 MONTHS $50,000

TANNENBAUM, JANET; *EFFECTS OF PERTURBING AGENTS ON CYTOSKELETAL COMPOSITION AND METABOLISM (PCM-8014072 A01)*; 12 MONTHS $45,000

KAWAI, MASATAKA; *CROSS-BRIDGE KINETICS IN SKELETAL MUSCLE (PCM-8014527 A01)*; 12 MONTHS $50,000

MAKOWSKI, LEE; *X-RAY DIFFRACTION EQUIPMENT FOR STRUCTURAL BIOLOGY (PCM-8018658*)*; 12 MONTHS $25,000

WALLACE, BONNIE A; *CRYSTALLINE MEMBRANE PROTEINS AND LIPIDS (PCM-8020063)*; 12 MONTHS $75,000

ZUBAY, GEOFFREY L; *EXTRA TRANSCRIPTIONAL MODES OF REGULATION OF GENE EXPRESSION IN PROKARYOTES (PCM-8021625)*; 12 MONTHS $50,000

CHANG, HAI WON; *HETEROGENEOUS MOLECULAR FORMS OF ACETYLCHOLINESTERASE FROM TORPEDO CALIFORNICA: DIFFERENCES IN STRUCTURE AND FUNCTION (PCM-8022852)*; 12 MONTHS $26,000

MAKOWSKI, LEE; *STRUCTURE OF LIGHT HARVESTING PROTEINS (PCM-8104323)*; 12 MONTHS $54,000

HENDERSON, ANN S; *THE RELATIONSHIP OF CHROMOSOME STRUCTURE AND BEHAVIOR TO CHROMOSOME ABERRATION (PCM-8104359)*; 12 MONTHS $40,000

CORNELL UNIVERSITY

HEPPEL, LEON A; *BINDING PROTEINS AND THEIR ROLE IN ACTIVE TRANSPORT (PCM-7811976 A02)*; 12 MONTHS $52,000

KINSELLA, JOHN E; *REGULATION OF PHOSPHOLIPID SYNTHESIS IN ANIMALS (PCM-7815118 A02)*; 12 MONTHS $55,590

EARLE, E D, AND GRACEN, V E; *PROTOPLAST FUSION AND MITOCHONDRIAL TRANSFER (PCM-7822572 A02)*; 12 MONTHS $70,759

EARLE, E D, AND GRACEN, V E; *PROTOPLAST FUSION AND MITOCHONDRIAL TRANSFER (PCM-7822572 A03)*; $12,593

GIBSON, QUENTIN H; *KINETICS AND MECHANISM OF LIGAND BINDING BY HEMOGLOBINS OF FISHES (PCM-7910446 A02)*; 12 MONTHS $50,000

EDELSTEIN, STUART J; *QUATERNARY INTERACTIONS IN PROTEINS (PCM-7910462 A02)*; 12 MONTHS $50,000

MC CARTY, RICHARD E; *FUNCTION OF COUPLING FACTOR 1 IN PHOTOPHOSPHORYLATION BY CHLOROPLASTS (PCM-7911476 A01)*; 12 MONTHS $60,195

SCHERAGA, HAROLD A; *STRUCTURAL STUDIES OF PROTEINS (PCM-7920279 A01)*; 12 MONTHS $74,000

CALVO, JOSEPH M; *REGULATORY AND EVOLUTIONARY RELATIONSHIPS BETWEEN IIVH1 AND LEU ABCD GENE CLUSTERS (PCM-8003480 A01)*; 12 MONTHS $25,000

GANEM, BRUCE; *FT-NMR INSTRUMENTATION FOR RESEARCH (PCM-8018643)*; 12 MONTHS $80,000

RACKER, EFRAIM; *RESOLUTION AND RECONSTITUTION OF THE SYSTEM OF PHOTOPHOSPHORYLATION (PCM-8021201)*; 12 MONTHS $45,000

STEPONKUS, PETER L; *EFFECTS OF FREEZING AND COLD ACCLIMATION ON THE PLASMA MEMBRANE OF ISOLATE CEREAL CROP PROTOPLASTS (PCM-8021688)*; 12 MONTHS $40,846

YODER, O C, AND FINK, GERALD R; *CLONING AND CHARACTERIZATION OF A VIRULENCE GENE FROM HELMINTHOSPORIUM MAYDIS (PCM-8104104)*; 12 MONTHS $55,000

ZAITLIN, MILTON; *PLANT VIRUS REPLICATION (PCM-8104150)*; 12 MONTHS $35,000

BAUMAN, DALE E, GOREWIT, RONALD C, AND CURRIE, W B; *REGULATION OF EFFICIENCY OF NUTRIENT USE IN ANIMAL PRODUCTION (PCM-8108130)*; 24 MONTHS $46,244

BAUMAN, DALE E, GOREWIT, RONALD C, AND CURRIE, W B; *REGULATION OF EFFICIENCY OF NUTRIENT USE IN ANIMAL PRODUCTION (PCM-8108130 A01)*; $5,756

DIETERT, RODNEY R; *HEMATOPOIETIC DEVELOPMENT AND DIFFERENTIATION (PCM-8109810)*; 12 MONTHS $40,000

CORNELL UNIVERSITY-CORNELL UNIVERSITY MEDICAL CENTER

NOVOGRODSKY, ABRAHAM; *LYMPHOCYTE ACTIVATION BY MITOGENIC OXIDIZING AGENTS (PCM-7904392 A02)*; 12 MONTHS $80,000

BACHVAROVA, ROSEMARY F; *GENE ACTIVITY IN GROWING MOUSE OOCYTES (PCM-8021872)*; 24 MONTHS $70,000

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

ZAHLER, STANLEY A; *GENE TRANSFER BY BACILLUS SUBTILIS BACTERIOPHAGE SP(BETA) (PCM-7824113 A02)*; 12 MONTHS $60,000

WEBB, WATT W; *MOLECULAR MECHANISMS OF BIOLOGICAL MEMBRANE DYNAMICS (PCM-8007634 A01)*; 12 MONTHS $84,976

CORNELL UNIVERSITY-CORNELL UNIVERSITY - STATE

SPANSWICK, ROGER M; *BIOPHYSICAL STUDIES ON ION TRANSPORT IN PLANTS (PCM-7812119 A02)*; 12 MONTHS $62,000

CLAYTON, RODERICK K; *PHOTOSYNTHETIC ENERGY CONVERSION (PCM-7823361 A02)*; 12 MONTHS $40,000

LEWIS, BERTHA A; *CHEMICO-PHYSICAL ANALYSIS OF DIETARY FIBER IN FOODS (PCM-7919135 A01)*; 12 MONTHS $103,836

ROCHOW, W F; *APHID TRANSMISSION OF LUTEOVIRUSES: MECHANISM OF SPECIFICITY (PCM-8007852 A01)*; 12 MONTHS $50,000

AIST, J R, AND ISRAEL, H W; *CELL WALL APPOSITIONS AND PLANT DISEASE RESISTANCE (PCM-8110822)*; 24 MONTHS $30,000

CORNELL UNIVERSITY - STATE-AGRICULTURAL EXPERIMENT STATION

ROELOFS, WENDELL L; *PHEROMONE CHEMISTRY, BIOCHEMISTRY AND SPECIFICITY IN LEPIDOPTERA (PCM-7813241 A03)*; $5,632

BOWERS, WILLIAM S, AND SODERLUND, DAVID M; *JUVENILE HORMONE ANTAGONISTS (PCM-7903245 A02)*; 12 MONTHS $85,900

ROELOFS, WENDELL L; *PHEROMONE BIOSYNTHESIS IN THE LEAFROLLER MOTH, AN INSECT PEST (PCM-8109850)*; 12 MONTHS $50,000

DOWNSTATE MEDICAL CENTER AT BROOKLYN

RODRIGUEZ-BOULA, ENRIQUE; *ASYMMETRIC BUDDING OF VIRUSES IN EPITHELIAL CELLS (PCM-8011053 A02)*; 12 MONTHS $60,000

BENOFF-RIND, SUSAN H; *CONTROL OF MYOSIN GENE EXPRESSION IN MURINE MUSCLE CELL LINES (PCM-8012312 A01)*; 12 MONTHS $45,000

BABLANIAN, ROSTOM; *INHIBITION OF PROTEIN SYNTHESIS BY VACCINIA VIRUS (PCM-8022604)*; 24 MONTHS $70,000

HEALTH RESEARCH INC

BRADY, GEORGE W; *X-RAY SCATTERING STUDIES OF SUPERHELICAL DNA (PCM-7913078 A01)*; 12 MONTHS $41,500

MANNELLA, CARMEN A; *STRUCTURE AND PERMEABILITY OF THE OUTER MITOCHONDRIAL MEMBRANE (PCM-8021789*)*; 12 MONTHS $49,311

HEALTH RESEARCH INC-ROSWELL PARK DIVISION

KOWALSKI, DAVID F; *SPECIFICITY OF NUCLEOLYTIC ENZYMES (PCM-7823757 A02)*; 12 MONTHS $35,000

SWANK, RICHARD T; *REGULATION OF LYSOSOMAL ENZYMES IN MACROPHAGES (PCM-7901173 A02)*; 12 MONTHS $70,000

HUBERMAN, JOEL A, AND WAGAR, M ANWAR; *CHROMOSOME-BOUND PROTEINS OF MAMMALIAN DNA REPLICATION (PCM-8011246)*; 12 MONTHS $65,000

HUNTER COLLEGE

COHEN, WILLIAM D; *STUDIES ON MARGINAL BAND FORMATION AND ERYTHROCYTE MORPHOGENESIS (PCM-8107195)*; 12 MONTHS $5,620

WYCHE, JAMES H; *GROWTH CONTROL OF CULTURED RAT OVARIAN CELLS (PCM-8140065)*; 12 MONTHS $48,890

MOUNT SINAI SCH OF MED CITY UNIV OF NEW YORK

PALESE, PETER; *MUTANTS OF INFLUENZA VIRUS (PCM-7807848 A03)*; 12 MONTHS $64,800

KRULWICH, TERRY A; *PROTONMOTIVE FORCE AND SOLUTE TRANSPORT IN ALKALOPHILIC AND ACIDOPHILIC BACTERIA (PCM-7810213 A02)*; 12 MONTHS $80,000

BRODSKY, WILLIAM A; *MODES OF ANION TRANSPORT IN EPITHELIAL CELLS (PCM-7923511 A01)*; 12 MONTHS $64,441

FRIEND, CHARLOTTE; *ACQUISITION OF A SCINTILLATION COUNTER (PCM-8018646)*; 12 MONTHS $27,500

BONA, CONSTANTI A; *CELLULAR BASIS OF REGULATORY IMMUNE NETWORK (PCM-8110578)*; 12 MONTHS $50,000

NEW YORK ACADEMY OF SCIENCES

SCOTT, WALTER N, AND GOODMAN, DAVID P; *CONFERENCE ON HORMONAL REGULATION OF EPITHELIAL TRANSPORT OF IONS AND WATER; NOV 10-12, 1980; NEW YORK CITY (PCM-8015755*)*; 12 MONTHS $8,000

STAUB, NORMAN C, AND MALIK, ASRAR; *CONFERENCE ON MECHANISMS OF LUNG INJURY; MAY 13-15, 1981; NEW YORK, NY (PCM-8023945)*; 12 MONTHS $5,000

LAZAROW, PAUL B; *INTERNATIONAL CONFERENCE ON PEROXISOMES AND GLYOXISOMES; SEPTEMBER 9-11, 1981; NEW YORK, NY (PCM-8109127)*; 12 MONTHS $5,000

THORBECKE, G J; *CONFERENCE ON IGD STRUCTURE AND FUNCTION (PCM-8112751)*; 12 MONTHS $5,000

NEW YORK BLOOD CENTER

REDMAN, COLVIN M; *ROLE OF THE GOLGI COMPLEX IN SECRETION (PCM-8104297)*; 24 MONTHS $120,000

POGO, ANGEL O; *NUCLEAR MATRIX STRUCTURES AND RNA PROTEIN COMPLEXES (PCM-8110074)*; 12 MONTHS $47,000

NEW YORK MEDICAL COLLEGE

TABACHNICK, MILTON; *STUDIES ON THYROXINE-BINDING GLOBULIN (TBG) (PCM-8021909)*; 12 MONTHS $30,000

NEW YORK UNIVERSITY-MEDICAL CENTER

KARPATKIN, MARGARET, AND KARPATKIN, SIMON; *HUMORAL REGULATION OF COAGULATION FACTOR LEVELS BY COAGULOPOIETINS (PCM-7815853 A03)*; 12 MONTHS $72,822

NEW YORK UNIVERSITY

KAMBYSELLIS, MICHAEL P; *OVARIAN DEVELOPMENT IN NATURAL POPULATIONS OF HAWAIIAN DROSOPHILIDAE (PCM-7913074 A01)*; 12 MONTHS $52,500

GEACINTOV, NICHOLAS E; *ENERGY TRANSFER MECHANISMS IN PHOTOSYNTHETIC MEMBRANES (PCM-8006109 A01)*; 12 MONTHS $50,000

PUBLIC HEALTH RESEARCH INSTITUTE OF NEW YORK

NOVICK, RICHARD P; *GENETIC TRANSLOCATION IN BACTERIA (PCM-7725476 A03)*; $18,830

RATNER, SARAH; *MECHANISMS OF NITROGEN TRANSFER AND UREA FORMATION (PCM-8018981)*; 12 MONTHS $72,043

RENSSELAER POLYTECHNIC INSTITUTE

PFAU, CHARLES J; *MAINTENANCE OF PERSISTENT MURINE LCM VIRUS INFECTION (PCM-7917935 A01)*; 12 MONTHS $55,800

HANNA, MICHAEL H; *HIGH PRESSURE LIQUID CHROMATOGRAPHIC PURIFICATION OF NATURAL PRODUCTS, PESTICIDES AND HERBICIDES (PCM-8018649)*; 12 MONTHS $25,000

ODELL, GARRETT M, AND SEGEL, LEE A; *THEORIES OF BIOLOGICAL MOTION AND PATTERN, AND THEIR CONTROL (MCS-8102640*)*; 12 MONTHS $15,000

ROCKEFELLER UNIVERSITY

ALLFREY, VINCENT G; *THE ROLE OF HISTONE ACETYLATION IN CHROMATIN ORGANIZATION (PCM-7907104 A03)*; 12 MONTHS $38,000

ZINDER, NORTON D; *GENETIC AND PHYSIOLOGICAL STUDIES OF THE BACTERIOPHAGE F1 (PCM-7910441 A02)*; 12 MONTHS $205,000

ROBERTSON, HUGH D; *STRUCTURE AND FUNCTION OF RNA SIGNALS FOR GENE REGULATION (PCM-7911708 A02)*; 12 MONTHS $50,000

LOEW, GILDA H; *QUANTUM CHEMICAL STUDIES OF HEME PROTEINS (PCM-7921591 A01)*; 24 MONTHS $120,000

RIZACK, MARTIN A; *MECHANISM OF LIPOLYTIC HORMONE ACTION (PCM-7923060 A01*)*; 12 MONTHS $8,888

DICKSON, ELIZABETH, AND ROBERTSON, HUGH D; *MOLECULAR BIOLOGY OF VIROIDS: INFECTIOUS RNA IN PLANTS (PCM-8004315 A01)*; 12 MONTHS $51,115

DE DUVE, CHRISTIAN; *COMPARATIVE BIOCHEMISTRY OF SUBCELLULAR ORGANELLES (PCM-8008713 A01)*; 12 MONTHS $115,000

MAUZERALL, DAVID C; *PHOTOCHEMICAL REACTIONS AND OXYGEN FORMATION (PCM-8011485)*; 12 MONTHS $60,000

CHOPPIN, PURNELL W; *VIRAL MEMBRANE STRUCTURE AND VIRUS-INDUCED ALTERATIONS IN CELL SURFACES (PCM-8013464 A01)*; 12 MONTHS $48,000

ROGER, MURIEL B; *IDENTIFICATION OF MISMATCHED BASE PAIRINGS EXCISED DURING TRANSFORMATION (PCM-8023548)*; 24 MONTHS $90,000

WATTERSON, DANIEL M; *STRUCTURE AND FUNCTION OF PLANT CALMODULINS (PCM-8104349)*; 12 MONTHS $50,000

AGOSTA, WILLIAM C, AND SINGER, ALAN G; *ISOLATION AND IDENTIFICATION OF MAMMALIAN PHEROMONES (PCM-8109686)*; 12 MONTHS $95,438

ROOSEVELT HOSPITAL

SPRINSON, DAVID B; *REGULATION OF STEROL BIOSYNTHESIS (PCM-8011832)*; 12 MONTHS $38,700

SLOAN KETTERING INSTITUTE FOR CANCER RESEARCH

BENNETT, DOROTHEA; *GENETIC CONTROL OF EMBRYONIC AND CELLULAR DIFFERENTIATION: MODEL SYSTEMS IN T-LOCUS MUTANTS (PCM-7717835 A04)*; 12 MONTHS $93,500

SINISCALCO, MARCELLO; *GENE LINKAGE AND NON-DISJUNCTION (PCM-7808944 A03)*; $5,000

LITMAN, GARY W; *VARIABLE REGION GENE DIVERSITY IN HETERODONTUS FRANCISCI (PCM-8001919 A01)*; $3,500

HAMMERLING, ULRICH G; *ANTIGEN PHENOTYPE OF PRE-T CELLS, T RESTRICTED STEM CELLS AND PLURIPOTENT STEM CELLS (PCM-8021133)*; 24 MONTHS $90,000

STATE UNIVERSITY AT ALBANY

LERMAN, LEONARD S, AND SCHOLES, CHARLES P; *TORSIONAL AND FLEXURAL FREEDOM IN DNA (PCM-7725583 A04)*; $10,000

YU, CHANG AN; *REACTION MECHANISM OF UBIQUINONE IN THE MITODONDRIAL IN THE MITODONDRIAL (PCM-7801394 A01)*; 6 MONTHS $19,388

CAMPBELL, WILBUR H; *THE STRUCTURE AND MECHANISM OF HIGHER PLANT NITRATE REDUCTASE (PCM-7915298 A02)*; 24 MONTHS $60,000

MYER, YASH P; *RESONANCE RAMAN SPECTROSCOPY AND HEME C SYSTEMS (PCM-7922622 A01)*; 12 MONTHS $47,000

BROWN, STEPHEN C; *PROLACTIN AND CORTICOSTEROID CONTROL OF HYDROMINERAL BALANCE DURING DEVELOPMENT (PCM-7922793 A01)*; 12 MONTHS $31,150

RIKMENSPOEL, ROBERT; *CONTROL OF SPERM MOTILITY (PCM-8003700 A01)*; 12 MONTHS $50,539

ZITOMER, RICHARD S; *TRANSCRIPTIONAL MUTATIONS IN YEAST (PCM-8104147)*; 12 MONTHS $55,073

LERMAN, LEONARD S; *THE MOLECULAR MECHANICS OF GEL ELECTROPHORESIS OF DNA AND SEQUENCE SPECIFIC SEPARATIONS (PCM-8111324)*; 12 MONTHS $68,000

STATE UNIVERSITY AT BINGHAMTON

STEVENS, EUGENE S; *ELECTRONIC STRUCTURE OF BIOPOLYMERS (PCM-7904293 A02)*; 12 MONTHS $34,000

JENSEN, ROY A; *BIOCHEMICAL GENETICS OF AROMATIC METABOLISM IN CULTURED SOMATIC CELLS OF NICOTIANA SYLVESTRIS (PCM-7907334 A02)*; 12 MONTHS $53,000

WILSON, KARL A; *THE FATE OF TRYPSIN INHIBITORS IN GERMINATING SEEDS (PCM-8003854 A01)*; 12 MONTHS $37,864

STATE UNIVERSITY AT BUFFALO

SCHUEL, HERBERT; *SECRETORY FUNCTIONS OF EGG CORTICAL GRANULES IN FERTILIZATION (PCM-7714916 A03)*; $9,000

HERREID, CLYDE F; *ENERGETICS OF RUNNING ARTHROPODS: A COMPARATIVE STUDY OF LOCOMOTION (PCM-7902890 A01)*; 12 MONTHS $40,795

SUMMERS, ROBERT G; *STUDY OF THE FERTILIZATION PRODUCTS OF THE SEA URCHIN EGG (PCM-7918141 A01)*; $7,000

FREE, STEPHEN J; *THE REGULATION OF NEUROSPORA INVERTASE AND TREHALASE (PCM-8011772)*; 24 MONTHS $90,000

ECKERT, BARRY S; *ANALYSIS OF THE CYTOSKELETON BY ANTIBODY MICROINJECTION (PCM-8110876)*; 24 MONTHS $88,000

STATE UNIVERSITY AT STONY BROOK

MOOS, CARL; *THE C-PROTEIN OF MUSCLE (PCM-7726785 A01)*; 24 MONTHS $65,000

LEVY, HARVEY; *OXYGEN EXCHANGE AND THE MECHANISM OF CONTRACTION (PCM-7803259 A02)*; 12 MONTHS $40,000

EDMUNDS, LELAND N; *CIRCADIAN RHYTHMS OF PHOTOSYNTHESIS IN EUGLENA (PCM-7805832 A02)*; 12 MONTHS $44,000

PRESTWICH, GLENN D; *FLUOROLIPIDS: TARGETED, DELAYED ACTION TERMITOCIDES (PCM-7910321 A01)*; $8,388

KIRZ, JANOS; *HIGH RESOLUTION X-RAY MICROSCOPY OF BIOLOGICAL SPECIMENS (PCM-7912571 A03)*; 12 MONTHS $50,000

SPRINGER, CHARLES S; *HIGH PRESSURE ELECTRON SPIN RESONANCE STUDIES OF BIOLOGICAL MEMBRANES (PCM-8003739 A01)*; 12 MONTHS $50,000

WU, FELICIA Y; *PHYSICO-CHEMICAL STUDIES ON DNA-PROTEIN INTERACTIONS (PCM-8003853)*; 12 MONTHS $39,000

SIMPSON, MELVIN V; *STUDIES ON MITOCHONDRIAL DNA POLYMORPHISM (PCM-8004738 A01)*; 12 MONTHS $38,339

CIRILLO, VINCENT P; *ROLE OF PHOSPHORYLATION IN YEAST SUGAR TRANSPORT (PCM-8005570)*; 12 MONTHS $52,792

LAUTERBUR, PAUL C; *NUCLEAR MAGNETIC RESONANCE MICROSCOPY (PCM-8008629 A01)*; 12 MONTHS $44,806

PRESTWICH, GLENN D; *SELECTIVE INHIBITORS OF STEROID METABOLISM OF INSECTS (PCM-8011159)*; 24 MONTHS $85,207

LYMAN, HARVARD; *REGULATION OF CHLOROPLAST DNA SYNTHESIS AND CHLOROPLAST DIVISION (PCM-8102804)*; 24 MONTHS $109,848

SPRINGER, CHARLES S; *NUCLEAR MAGNETIC RESONANCE STUDIES OF BIOLOGICAL MEMBRANES (PCM-8104630)*; 12 MONTHS $50,000

DALTON, LARRY R; *DEVELOPMENT OF SATURATION TRANSFER AND TIME RESOLVED TECHNIQUES AND THEIR APPLICATION TO THE HYDRODYNAMIC CHARACTERIZATION OF PROTEINS AND SUPRAMOLECULAR COMPLEXES (CHE-8112449*)*; 12 MONTHS $34,000

STATE UNIVERSITY AT STONY BROOK-SUNY-HEALTH SCIENCES CENTER STONY BROOK

MCLAUGHLIN, STUART; *SURFACE CHARGES AND H-POSITIVE CARRIERS (PCM-7903241 A02)*; 12 MONTHS $45,000

SYRACUSE UNIVERSITY

BRYAN, JOHN K; *REGULATION OF AMINO ACID BIOSYNTHESIS IN MULTICELLULAR PLANTS (PCM-7812202 A02)*; 12 MONTHS $55,643

LIPSON, EDWARD D; *GENETIC ANALYSIS OF PHYCOMYCES LIGHT RESPONSE SYSTEM (PCM-8003915 A01)*; 12 MONTHS $54,000

WARE, BENNIE R; *SUPRAMOLECULAR ASSEMBLY IN CYTOPLASMIC MOTILITY (PCM-8010924 A01)*; 12 MONTHS $55,000

LEVY, H RICHARD; *MECHANISMS OF CONTROL OF ENZYMATIC ACTIVITY (PCM-8102164)*; 12 MONTHS $45,000

WARE, BENNIE R; *ACQUISITION OF A HIGH FIELD MULTI-NUCLEI NMR SPECTROMETER (PCM-8104464)*; 12 MONTHS $50,000

MILLER, JOHN H, AND BASSEL, ALIX R; *ASYMMETRIC CELL DIVISION AND ITS ROLE IN CELLULAR DIFFTRENTIATION (PCM-8110079)*; 24 MONTHS $45,000

UNION COLLEGE

RAPPAPORT, RAYMOND J; *EXPERIMENTAL ANALYSIS OF ANIMAL CELL DIVISION (PCM-7902624 A02)*; 12 MONTHS $36,178

UNIVERSITY OF ROCHESTER

KNOX, ROBERT S; *CHLOROPHYLL AND CHLOROPHYLL AGGREGATES (PCM-8011819 A01)*; 12 MONTHS $62,000

KNOX, ROBERT S, AND MOUROU, GERARD A; *ACQUISITION OF EQUIPMENT FOR DEVELOPMENT OF SUBPICOSECOND BIOLOGICAL PHYSICS FACILITY (PCM-8018488)*; 12 MONTHS $100,000

MARINETTI, GUIDO V; *PROTEIN BOUND FATTY ACIDS AND POLAR LIPIDS IN CELL MEMBRANES (PCM-8021564)*; 24 MONTHS $60,000

FORSYTH, JAMES M; *TIME RESOLVED X-RAY DIFFRACTION STUDIES OF ROD OUTER SEGMENT AND PURPLE MEMBRANES (PCM-8104352)*; 12 MONTHS $64,000

WASSERMAN, WILLIAM J; *MOLECULAR CONTROL OF MEIOSIS AND MITOSIS (PCM-8104491)*; 12 MONTHS $70,000

UPSTATE MEDICAL CENTER AT SYRACUSE

BASSEL, ALIX R, AND MILLER, JOHN H; *ASYMMETRIC CELL DIVISION AND ITS ROLE IN CELLULAR DIFFERENTIATION (PCM-8109862)*; 24 MONTHS $45,000

W ALTON JONES CELL SCIENCE CENTER INC

DOUGALL, DONALD K; *PRODUCTION OF SPECIFIC CHEMICALS BY PLANT CELLS GROWN IN CHEMOSTATS (PCM-7910059 A01)*; $10,599

YESHIVA UNIVERSITY-ALBERT EINSTEIN COLLEGE OF MEDICINE

SPENCER, PETER S; *CHEMICAL THREATS TO MAN'S NERVOUS SYSTEM (PCM-7812701 A02)*; 12 MONTHS $115,924

HURWITZ, JERARD; *ENZYMATIC REACTIONS INVOLVED IN NUCLEIC ACID METABOLISM (PCM-7816550 A02)*; 12 MONTHS $50,000

WITTENBERG, JONATHAN B; *MOLECULAR INTERACTIONS OF LEGHEMOGLOBIN, CYTOPLASMIC PROTEINS AND BACTEROID TERMINAL OXIDASES IN NITROGEN FIXATION (PCM-8004472 A01)*; 12 MONTHS $49,000

SHAPIRO, LUCILLE; *REGULATION OF DIFFERENTIATION IN CAULOBACTER (PCM-8007508 A01)*; 12 MONTHS $105,125

SILVERMAN, PHILIP; *GENETICS OF PLASMID-CODED ENVELOPE PROTEINS IN E. COLI (PCM-8014274)*; 12 MONTHS $50,000

DAVID, CHARLES; *REGULATION OF PROLIFERATION AND DIFFERENTIATION OF HYDRA STEM CELLS (PCM-8022675)*; 12 MONTHS $75,000

STANLEY, PAMELA; *MEMBRANE MUTANTS OF MAMMALIAN CELLS (PCM-8023672)*; 12 MONTHS $50,000

DINA, DINO; *REGULATION OF MURINE RNA TUMOR VIRUS GENE EXPRESSION (PCM-8104530)*; 12 MONTHS $55,000

SCHARFF, MATTHEW D; *SOMATIC CELL GENETICS OF IMMUNOGLOBULIN PRODUCTION (PCM-8108642)*; 12 MONTHS $100,000

NORTH CAROLINA

DUKE UNIVERSITY

WILBUR, KARL M; *COLLABORATIVE RESEARCH ON CARBONATE CALCIFICATION: COMPARATIVE STUDIES OF UNIFYING MECHANISMS (PCM-7822242 A02)*; 12 MONTHS $74,724

HARRIS, ELIZABETH H, BOYNTON, JOHN E, AND GILLHAM, NICHOLAS W; *A CENTER FOR THE MENDELIAN GENETICS OF CHLAMYDOMONAS REINHARDTII (PCM-7823308 A01)*; 12 MONTHS $37,851

KUBAI, DONNA F, AND NICKLAS, R; *EVOLUTION OF CHROMOSOME MOVEMENT (PCM-7911481 A02)*; 12 MONTHS $46,998

KRAMER, PAUL J; *CAUSES OF CHILLING INJURY IN PLANTS (PCM-7917334 A01)*; 12 MONTHS $53,590

TANFORD, CHARLES; *STRUCTURE AND FUNCTION OF CELL MEMBRANES (PCM-7920676 A01)*; 12 MONTHS $30,000

WEBSTER, ROBERT E; *MEMBRANE ASSOCIATED PROTEIN STRUCTURES (PCM-7924132 A01)*; 12 MONTHS $50,000

ENDOW, SHARYN A; *GENETIC MECHANISMS AFFECTING GENE COPY NUMBER AND DIVERSITY IN HIGHER ORGANISMS (PCM-8110183)*; 12 MONTHS $35,000

DUKE UNIVERSITY-MARINE LABORATORY

BONAVENTURA, JOSEPH, AND BONAVENTURA, CELIA; *MOLECULAR CONTROLS OF RESPIRATORY PROTEINS (PCM-7906462 A02)*; 12 MONTHS $51,000

DUKE UNIVERSITY-SCHOOL OF MEDICINE

MODRICH, PAUL L; *ROLE OF SUBUNITS IN T7 DNA POLYMERASE ACTIVITY (PCM-7823036 A02)*; 12 MONTHS $54,000

MOSES, MONTROSE J; *CYTOGENETIC ANALYSIS WITH THE SYNAPTONEMAL COMPLEX (PCM-8005547 A01)*; 12 MONTHS $47,766

BELL, ROBERT M; *ACQUISITION OF HPLC INSTRUMENTATION (PCM-8100075)*; 12 MONTHS $28,000

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

SORENSON, JOHN C; *METABOLISM OF SPECIFIC MRNA'S DURING MAIZE DEVELOPMENT (PCM-7823313 A02)*; 12 MONTHS $25,000

LEVINGS, C S; *MITOCHONDRIAL DNA OF MAIZE: ITS ORGANIZATION AND GENETIC DIVERSITY (PCM-8010933)*; 12 MONTHS $70,000

SCANDALIOS, JOHN G; *50TH MEETING OF THE GENETICS SOCIETY OF AMERICA; JUNE 1517, 1981; RALEIGH, NORTH CAROLINA (PCM-8105295)*; 6 MONTHS $4,000

DOUGHERTY, WILLIAM G, AND SORENSON, JOHN C; *GENOMIC EXPRESSION OF A POLYCISTRONIC PLANT VIRAL RNA (PCM-8109365)*; 24 MONTHS $70,000

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL-SCHOOL OF MEDICINE

JONES, MARY E; *BIOSYNTHETIC AND TRANSFER REACTIONS (PCM-7902623 A02)*; 12 MONTHS $76,367

HACKENBROCK, CHARLES R; *INTERMEDIATE HIGH VOLTAGE ANALYTICAL ELECTRON MICROSCOPE (PCM-8018441)*; 12 MONTHS $70,000

BOTT, KENNETH F; *ORGANIZATION AND CHARACTERIZATION OF BACILLUS SUBTILIS RIBOSOMAL GENES (PCM-8022015)*; 12 MONTHS $55,000

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

STAFFORD, DARREL W; *CONTROL OF GENES FOR RIBOSOMAL RNA SYNTHESIS IN SEA URCHIN DEVELOPMENT (PCM-7703962 A03)*; 4 MONTHS $9,700

GRIFFITH, JACK D; *CHROMATIN - PROBES INTO ITS STRUCTURE IN THE LIVING CELL II (PCM-7903248 A02)*; 12 MONTHS $86,170

HACKENBROCK, CHARLES R; *CATALYTIC EVENTS IN THE MITOCHONDRIAL ENERGY TRANSDUCING MEMBRANE (PCM-7910968 A01)*; 12 MONTHS $65,000

LENTZ, BARRY R; *COMPOSITION: STRUCTURE RELATIONSHIPS IN LIPID DISPERSIONS (PCM-7922733 A01)*; 12 MONTHS $36,000

STAFFORD, DARREL W; *MODIFICATION AND TRANSCRIPTION OF SEA URCHIN LYTECHINUS VARIEGATUS RDNA AND 5S RDNA GENES (PCM-8003738)*; 24 MONTHS $90,000

BROWN, R M; *CELLULOSE MICROFIBRIL ASSEMBLY AND ORIENTATION: ROLES IN PLANT GROWTH AND DEVELOPMENT (PCM-8005715 A01)*; 12 MONTHS $69,623

TALMAGE, ROY V; *THE PHYSIOLOGICAL FUNCTION OF CALCITONIN IN MAMMALS: A UNIQUE CALCIUM STORAGE COMPARTMENT IN BONE (PCM-8007288 A01)*; 12 MONTHS $50,000

GILBERT, LAWRENCE I; *ACQUISITION OF SCINTILLATION COUNTERS AND ULTRACENTRIFUGES (PCM-8018634)*; 12 MONTHS $45,000

KOEPPE, JOHN K; *ROLE OF JUVENILE HORMONE IN INSECT OVARIAN MATURATION (PCM-8021190)*; 24 MONTHS $85,000

HERMANS, JAN; *MODELING PROTEIN DYNAMICS AND PROTEIN-WATER INTERACTIONS (PCM-8112234)*; 12 MONTHS $45,000

JACOBSON, KENNETH A; *WORKSHOP ON THE CELL BIOLOGICAL APPLICATIONS OF PHOTOBLEACHING, OCTOBER 25-28, 1981; CHAPEL HILL, N.C. (PCM-8115737)*; 6 MONTHS $3,794

UNIVERSITY OF NORTH CAROLINA AT WILMINGTON

BRAUER, RALPH W; *DUPLICATION OF LIFE SUPPORT SYSTEM FOR HIGH PRESSURE BIOLOGICAL STUDIES (PCM-8110187)*; 12 MONTHS $10,000

WAKE FOREST UNIVERSITY-BOWMAN GRAY SCHOOL OF MEDICINE

KILPATRICK, BILL A; *ANALYSIS OF HUMAN CYTOMEGALOVIRUS MESSENGER RNA (PCM-8021716)*; 12 MONTHS $56,086

WAKE FOREST UNIVERSITY

JAFFE, MORDECAI J; *LIGHT ACTIVATION EFFECT AS A PROBE IN THE EXPERIMENTAL SEPARATION OF SENSORY AND MOTOR FUNCTIONS IN THE CONTACT COILING OF PEA TENDRILS (PCM-8003689)*; 24 MONTHS $102,099

NORTH DAKOTA

UNIVERSITY OF NORTH DAKOTA MAIN CAMPUS

SHERIDAN, WILLIAM F; *NUTRITIONALLY DEFECTIVE MAIZE KERNEL MUTANTS (PCM-8004814 A01)*; 12 MONTHS $50,000

OHIO

CASE WESTERN RESERVE UNIVERSITY

HOPFER, ULRICH; *SMALL INTESTINAL NUTRIENT AND ELECTROLYTE TRANSPORT (PCM-7807211 A02)*; 12 MONTHS $35,003

SABLE, HENRY Z; *INTERACTION OF ENZYMES, COENZYMES, SUBSTRATES AND METAL IONS (PCM-7823701 A02)*; 12 MONTHS $25,000

ROSENBERRY, TERRONE L; *STRUCTURE OF THE COLLAGEN-LIKE SUBUNITS OF ACETYLCHOLINESTERASE (PCM-8007061 A01)*; 12 MONTHS $50,000

WOOD, HARLAND G; *ROLE OF INORGANIC PYROPHOSPHATE AND INORGANIC POLYPHOSPHATE IN METABOLISM (PCM-8022701)*; 12 MONTHS $50,000

CASE WESTERN RESERVE UNIVERSITY-SCHOOL OF MEDICINE

LEIS, JONATHAN P; *TRANSCRIPTION OF TUMOR VIRUS RNA IN VITRO (PCM-7919500 A01*)*; 6 MONTHS $7,000

ANDORN, ANNE C; *ACQUISITION OF LIQUID SCINTILLATION COUNTER AND ULTRACENTRIFUGE (PCM-8100308*)*; 12 MONTHS $40,000

CHARLES F KETTERING FOUNDATION-CHARLES F KETTERING RESEARCH LABORATORY

BAUER, WOLFGANG D; *THE ROLE OF LECTINS IN PLANT-MICROORGANISM INTERACTIONS (PCM-7922947 A01)*; 12 MONTHS $65,300

KE, BACON; *PRIMARY PHOTOCHEMICAL AND ELECTRON-TRANSPORT REACTIONS IN PHOTOSYNTHESIS (PCM-8003702 A01)*; 12 MONTHS $68,000

CALVERT, HARRY E; *ACQUISITION OF A SCANNING ELECTRON MICROSCOPE (PCM-8100084)*; 12 MONTHS $120,000

KENT STATE UNIVERSITY

WALZ, FREDERICK G; *LIVER ENDOPLASMIC RETICULUM POLYPEPTIDES (PCM-8107924)*; 12 MONTHS $50,000

MEDICAL COLLEGE OF OHIO AT TOLEDO

NELSON, LEONARD; *A MEANS OF REGULATING FLAGELLAR MOVEMENT IN SPERM (PCM-8002358 A01)*; 12 MONTHS $44,000

MIAMI UNIVERSITY CENTRAL OFFICE

BHATTACHARJEE, JNANENDRA; *REGULATION OF LYSINE BIOSYNTHESIS IN SACCHAROMYCES CEREVISIAE (PCM-7824863 A01)*; 6 MONTHS $6,466

OHIO STATE UNIVERSITY

BERLINER, LAWRENCE J; *ROLE OF ALPHA LACTALBUMIN IN LACTOSE BIOSYNTHESIS (PCM-7724658 A02)*; 12 MONTHS $40,000

SERIF, GEORGE S; *FUCOSE SYNTHESIS AND UTILIZATION IN MAMMALIAN TISSUE (PCM-7911032 A01)*; 12 MONTHS $24,000

REEVE, JOHN N; *DEVELOPMENT AND EXPRESSION OF BACTERIAL VIRUSES IN ANUCLEATE CELLS (PCM-7912019 A01)*; 12 MONTHS $54,000

KIMBALL, PAUL C; *A MULTISTAGE MOLECULAR MODEL FOR NEOPLASTIC TRANSFORMATION IN RATS (PCM-7912027 A02)*; 12 MONTHS $52,070

PAPPAS, PETER W; *CHARACTERIZATION OF TEGUMENTARY MEMBRANE-BOUND ENZYMES OF GASTROINTESTINAL PARASITES (PCM-8009442 A01)*; 12 MONTHS $36,245

BYERS, THOMAS J; *EEA, A DIFFERENTIATION ENHANCING FACTOR IN ACANTHAMOEBA: CHARACTERIZATION, SYNTHESIS, AND FATE (PCM-8011696 A01)*; 12 MONTHS $27,645

MARZLUF, GEORGE A; *MOLECULAR STUDIES OF GENETIC REGULATION IN NEUROSPORA (PCM-8013042)*; 12 MONTHS $55,000

EVANS, MICHAEL L; *HORMONAL REGULATION OF ROOT GROWTH (PCM-8103298)*; 24 MONTHS $99,880

WONG, JAMES R; *CHARACTERIZATION OF ABSCISIC ACID - RESISTANT PLANT CELL CULTURE (PCM-8103359)*; 24 MONTHS $70,962

TASSAVA, ROY A; *EFFECTS OF DENERVATION ON ADULT NEWT BLASTEMA CELL CYCLE PARAMETERS (PCM-8103430)*; 24 MONTHS $74,606

TASSAVA, ROY A; *1981 MIDWEST REGIONAL DEVELOPMENTAL BIOLOGY CONFERENCE/ THE FAWCETT CENTER FOR TOMORROW, OHIO STATE UNIVERSITY, COLUMBUS OHIO; MAY 21-23, 1981 (PCM-8106729)*; 6 MONTHS $2,200

WARMBRODT, ROBERT D; *COMPARATIVE ROOT STRUCTURE OF PLANTS (PCM-8110341)*; 12 MONTHS $35,000

TSAI, MING-DAW; *STEREOCHEMISTRY OF ENZYME REACTIONS INVOLVING A PROPROCHIRAL PHOSPHORUS CENTER (PCM-8140443)*; 12 MONTHS $35,000

OHIO UNIVERSITY

BRASELTON, JAMES P; *KARYOTYPIC ANALYSIS OF MEMBERS OF THE PLASMODIOPHORALES PATHOGENIC ON CROP PLANTS (PCM-8113631)*; 24 MONTHS $33,127

UNIVERSITY OF CINCINNATI-COLLEGE OF MEDICINE

RUDNEY, HARRY; *BIOSYNTHESIS OF UBIQUINONE (PCM-7812124 A02)*; 12 MONTHS $64,803

CARDELL, ROBERT R; *ACQUISITION OF ELECTRON MICROSCOPE (PCM-8018252)*; 12 MONTHS $70,136

BLUMENTHAL, KENNETH M; *PHOSPHOLIPID-INHIBITABLE POLYPEPTIDE CYTOTOXINS: STRUCTUREACTIVITY CORRELATIONS (PCM-8020330)*; 24 MONTHS $60,000

LARSEN, WILLIAM J; *GRANULOSA GAP JUNCTION CHANGES IN THE REPRODUCTIVE CYCLE (PCM-8117927)*; 12 MONTHS $40,802

UNIVERSITY OF CINCINNATI

BOBST, ALBERT M; *ENZYMATIC INCORPORATION OF FREE RADICALS INTO NUCLEIC ACIDS (PCM-7801979 A02)*; 12 MONTHS $35,000

KANESHIRO, EDNA S; *THE ROLE OF INOSITOL LIPID METABOLISM IN THE EXCITABLE MEMBRANE OF PARAMECIUM (PCM-8020505)*; 12 MONTHS $58,502

CARUSO, JOHN L; *PRODUCTION AND BIOLOGICAL ACTIVITY OF INDOLE-3-ACETIC ACID IN THE LANCEOLATE MUTANT IN TOMATO (PCM-8021636)*; 24 MONTHS $67,882

ELDER, RICHARD C; *DEVELOPMENT OF EXAFS AS A BIOCHEMICAL RESEARCH TOOL (PCM-8023743)*; 12 MONTHS $45,000

UNIVERSITY OF DAYTON

GEIGER, DONALD R; *CONTROL OF EXPORT AND DISPOSITION OF PRODUCTS OF PHOTOSYNTHESIS IN RESPONSE TO SOURCE AND SINK STATUS (PCM-8008720)*; 12 MONTHS $51,977

WRIGHT STATE UNIVERSITY

COHEN, NADINE D; *BIOTIN TRANSPORT AND METABOLISM IN ANIMAL CELLS (PCM-8103270)*; 12 MONTHS $35,497

OKLAHOMA

OKLAHOMA MEDICAL RESEARCH FOUNDATION

THURMAN, WILLIAM G; *ACQUISITION OF GC-MASS SPECTROMETER (PCM-8100350)*; 12 MONTHS $85,000

OKLAHOMA STATE UNIVERSITY

WALLER, GEORGE R; *ENZYMES INVOLVED IN CAFFEINE (ALKALOID) METABOLISM IN COFFEA SPECIES (PCM-7823160 A01)*; 12 MONTHS $38,850

SAUER, JOHN R; *PHYSIOLOGY OF SALT AND WATER BALANCE IN ACARINE SPECIES (PCM-7921715 A01)*; 12 MONTHS $30,300

SCOTT, HUGH L; *THEORETICAL STUDIES OF LIPID BILAYERS AND BIOMEMBRANES (INT-8023725*)*; 4 MONTHS $6,600

LIAO, TA-HSIU; *ACQUISITION OF EQUIPMENT FOR DETERMINATION OF AMINO ACID SEQUENCES OF PEPTIDES AND PROTEINS (PCM-8100266)*; 12 MONTHS $35,000

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

BEEVERS, LEONARD; *GLYCOPROTEIN BIOSYNTHESIS IN PISUM SATIVUM (PCM-7728273 A02)*; 12 MONTHS $44,000

OREGON

OREGON GRADUATE CENTER

GOLD, MICHAEL H; *LIGNIN DEGRADATION BY PHANEROCHAETE CHRYSOSPORIUM: A BIOCHEMICAL GENETIC APPROACH (PCM-8114218)*; 12 MONTHS $86,014

OREGON STATE UNIVERSITY

EVANS, HAROLD J; *BIOCHEMICAL AND PHYSIOLOGICAL LIMITATIONS OF NITROGEN FIXATION IN LEGUMES (PCM-7708784 A03)*; 12 MONTHS $87,600

QUATRANO, RALPH S; *BIOCHEMICAL AND CYTOLOGICAL STUDIES OF EARLY PLANT EMBRYOGENESIS (PCM-7820435 A03)*; 12 MONTHS $58,650

BECKER, ROBERT R, TERWILLIGER, ROBERT C, AND VAN HOLDE, KENSAL E; *SEQUENCE, PHYLOGENY AND STRUCTURE OF INVERTEBRATE HEMOGLOBINS (PCM-7821784 A02)*; 12 MONTHS $50,000

MORRIS, ROY O; *TUMORIGENESIS BY AGROBACTERIUM TUMEFACIENS: THE ROLE OF CYTOKININS (PCM-7822963 A01)*; 24 MONTHS $90,000

CORLISS, JOHN B; *HYDROTHERMAL VENT WATERS AND DEPOSITS-GALAPAGOS RIFT (OCE-7826368 A02*)*; 6 MONTHS $12,540

PARKS, LEO W; *FUNCTION OF STEROLS IN THE METABOLISM OF SACCHAROMYCES CEREVISIAE (PCM-7827609 A01)*; 12 MONTHS $39,000

BISHOP, NORMAN I; *MUTATION ANALYSIS OF PARTIAL REACTIONS OF PHOTOSYNTHESIS (PCM-7910771 A01)*; 12 MONTHS $58,497

LEKLEM, JAMES E; *EFFECT OF PROCESSING ON NUTRITIVE CONTENT AND BIOAVAILABILITY OF SELECTED NUTRIENTS IN COMMONLY CONSUMED FOODS (PCM-7919119 A02)*; 12 MONTHS $27,335

RYKER, LEE C, AND LIBBEY, LEONARD M; *CHEMOACOUSTIC STIMULI AND RESPONSES IN BARK BEETLES ON CONIFERS (PCM-7921708 A02)*; $4,000

RYKER, LEE C, AND LIBBEY, LEONARD M; *CHEMOACOUSTIC STIMULI AND RESPONSES IN BARK BEETLES ON CONIFERS (PCM-7921708 A03)*; 12 MONTHS $49,334

ROGERS, CHRISTINA; *PURCHASE OF CO2 AND GYROTORY INCUBATORS (PCM-8008740)*; 6 MONTHS $6,585

MATHEWS, C K; *ACQUISITION OF HIGH PERFORMANCE LIQUID CHROMATOGRAPH FOR DEOXYRIBONUCLEOTIDE STUDIES (PCM-8009441)*; 12 MONTHS $25,000

JOHNSON, W C; *CIRCULAR DICHROISM AND THE CONFORMATION OF BIOLOGICAL POLYMERS (PCM-8021210)*; 12 MONTHS $74,000

PORTLAND STATE UNIVERSITY

EIRICH, LEON D; *COENZYME F420- AND FLAVIN-MEDIATED ELECTRON TRANSFER REACTIONS IN METHANE BACTERIA (PCM-8011631)*; 24 MONTHS $68,000

HILLMAN, STANLEY S; *A COMPARATIVE ANALYSIS OF DEHYDRATIONAL EFFECTS ON CARDIOVASCULAR PERFORMANCE IN ANURANS (PCM-8021808)*; 24 MONTHS $23,274

CRAWSHAW, LARRY I; *TEMPERATURE REGULATION IN VERTEBRATES (PCM-8104368)*; 24 MONTHS $100,000

REED COLLEGE

STAFFORD, HELEN A; *THE METABOLISM AND REGULATION OF PROCYANIDIN ACCUMULATION IN HIGHER PLANTS (PCM-7920915 A01)*; 12 MONTHS $49,086

UNIVERSITY OF OREGON HEALTH SCIENCES CENTER

FAUST, CHARLES H; *IMMUNOGLOBULIN HEAVY CHAIN MRNA METABOLISM AND PROCESSING (PCM-7905041 A01)*; 12 MONTHS $40,000

KABAT, DAVID; *MOLECULAR GENETICS OF A PLASMA MEMBRANE GLYCOPROTEIN: MULV GP70 (PCM-7919372 A01)*; 12 MONTHS $45,880

KABAT, DAVID; *MOLECULAR GENETICS OF A PLASMA MEMBRANE GLYCOPROTEIN: MULV GP70 (PCM-7919372 A02)*; $11,880

UNIVERSITY OF OREGON - EUGENE

SCHELLMAN, JOHN A; *SPECTROSCOPY OF ORIENTED BIOLOGICAL SYSTEMS (PCM-7680741 A04)*; $6,000

HAGUE, DONALD R; *REGULATION OF SYNTHESIS OF PHOSPHOENOLPYRUVATE CARBOXYLASE IN ZEA MAYS (PCM-8012035)*; 24 MONTHS $30,000

MATTHEWS, BRIAN W; *STRUCTURE AND STABILITY OF THERMOLYSIN AND OTHER PROTEINS (PCM-8014311 A01)*; 12 MONTHS $81,000

BERNHARD, SIDNEY A; *STRUCTURE AND FUNCTION OF CATALYTIC SITES IN ENZYMES (PCM-8016249 A01)*; 12 MONTHS $55,000

PETICOLAS, WARNER L; *PROTEIN AND ENZYME DYNAMICS FROM LASER RAMAN SCATTERING (PCM-8021197)*; 12 MONTHS $50,000

HARRIS, PATRICIA J; *THE CYTOSKELETON AND CELL CYCLE CONTROLS (PCM-8102884)*; 12 MONTHS $90,227

VIGNA, STEVEN R; *COMPARATIVE PHYSIOLOGY OF CHOLECYSTOKININ AND GASTRIN (PCM-8104338)*; 24 MONTHS $80,000

SCHELLMAN, JOHN A; *SPECTROSCOPY OF ORIENTED BIOLOGICAL SYSTEMS (PCM-8104339)*; 12 MONTHS $104,000

DAHLQUIST, FREDERICK W; *T-4 LYSOZYME AS A MODEL FOR PROTEIN FOLDING (PCM-8104511)*; 24 MONTHS $83,000

STAHL, FRANKLIN W; *GROWTH, MUTATION, AND RECOMBINATION IN BACTERIOPHAGE (PCM-8109799)*; 12 MONTHS $85,000

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

JARVIK, JONATHAN W; *GENE CONTROL OF FLAGELLAR ASSEMBLY IN CHLAMYDOMONAS (PCM-7823253 A02)*; 12 MONTHS $50,000

HO, CHIEN; *STRUCTURE FUNCTION RELATIONSHIPS IN BIOLOGICAL SYSTEMS (PCM-7825818 A02)*; 12 MONTHS $49,866

MCCLURE, W R; *MECHANISM AND FIDELITY OF E. COLI DNA POLYMERASE I (PCM-8140433)*; 12 MONTHS $27,000

DREXEL UNIVERSITY

BILLHEIMER, JEFFREY T; *PURCHASE OF LIQUID SCINTILLATION COUNTER FOR STUDY OF STEROLS AND OTHER LIPIDS (PCM-8006840)*; 12 MONTHS $20,200

HAHNEMANN MEDICAL COLLEGE AND HOSPITAL

DE TERRA, NOEL; *CONTROL OF MACRONUCLEAR DNA SYNTHESIS IN BLEPHARISMA (PCM-8109289)*; 24 MONTHS $30,000

HAVERFORD COLLEGE

KESSLER, DIETRICH; *REGULATION OF CELL MOTILITY (PCM-8016620 A01)*; 12 MONTHS $50,000

INSTITUTE FOR CANCER RESEARCH

BAYER, MANFRED E; *STRUCTURAL AND FUNCTIONAL ORGANIZATION OF BACTERIAL AND VIRAL SURFACES (PCM-7813637 A02)*; 12 MONTHS $39,000

MARCUS, ABRAHAM; *SYNTHESIS OF RNA AND PROTEIN AND EARLY SEED EMBRYO GERMINATION (PCM-7900268 A01)*; 24 MONTHS $100,000

MILDVAN, ALBERT S; *MECHANISMS OF METAL ACTIVATED AND METALLOENZYMES (PCM-7923154 A01)*; 12 MONTHS $64,000

WEEKS, DONALD P; *REGULATION OF TUBULIN SYNTHESIS IN CHLAMYDOMONAS REINHARDI (PCM-8003438 A01)*; 12 MONTHS $75,000

PERRY, ROBERT P; *SYNTHESIS, ORGANIZATION AND FUNCTION OF RIBONUCLEIC ACID (PCM-8010972 A01)*; 12 MONTHS $140,000

GLUSKER, JENNY P, AND CARRELL, HORACE L; *STRUCTURAL STUDIES OF D-XYLOSE ISOMERASE (PCM-8104532)*; 12 MONTHS $54,000

MONELL CHEMICAL SENSES CENTER

SMITH, AMOS B, AND EPPLE, GISELA; *CHEMICAL COMMUNICATION IN A PRIMATE: A CHEMICAL AND BEHAVIORAL STUDY (BNS-7819875 A02*)*; 12 MONTHS $31,420

GLEESON, RICHARD A, ADAMS, MICHAEL A, AND SMITH, AMOS B; *CHEMICAL COMMUNICATION IN A CRUSTACEAN: CHARACTERIZATION OF A SEX PHEROMONE IN CALLINECTES SAPIDUS (PCM-8104336)*; 24 MONTHS $90,000

PENNSYLVANIA STATE UNIVERSITY

BURRIS, JOHN E; *THE CYCLING OF CARBON, NITROGEN, AND PHOSPHORUS IN CORAL-ZOOXANTHELLAE SYMBIOSES (PCM-7918796*)*; 24 MONTHS $40,000

WEDI ER, FREDERICK C; *GLUTAMINE SYNTHETASE: REGULATION AND THERMOSTABILITY (PCM-7924481 A01)*; 12 MONTHS $33,000

BERNLOHR, ROBERT W; *REGULATION OF NITROGEN METABOLISM AND SPORULATION IN BACILLUS (PCM-7924644)*; 12 MONTHS $25,000

BOLLAG, JEAN-MARC; *ACQUISITION OF HIGH PERFORMANCE LIQUID CHROMATOGRAPH (PCM-8018704)*; 12 MONTHS $21,500

TU, CHEN-PEI D; *SITE-SPECIFIC RECOMBINATION OF THE TN3 TRANSPOSON (PCM-8022650)*; 24 MONTHS $90,000

BENKOVIC, STEPHEN J; *STUDIES OF PTERIN MECHANISMS (PCM-8103670)*; 12 MONTHS $50,000

MATTHEWS, C R, AND TU, CHEN-PEI D; *THE EFFECT OF AMINO ACID REPLACEMENTS ON PROTEIN FOLDING (PCM-8104495)*; 12 MONTHS $44,000

VILLAFRANCA, JOSEPH J; *STRUCTURE, FUNCTION AND CONTROL OF ATP UTILIZING ENZYMES (PCM-8108094)*; 12 MONTHS $46,500

MIZEL, STEVEN B; *MECHANISM OF ACTION OF INTERLEUKIN 1 (PCM-8110370)*; 12 MONTHS $55,000

TEMPLE UNIVERSITY-SCHOOL OF MEDICINE

SIROVER, MICHAEL A; *METAL INDUCTION OF DNA REPAIR IN HUMAN CELLS (PCM-7720183 A02)*; 12 MONTHS $29,931

LITWACK, GERALD; *MODULATOR AND THE GLUCOCORTICOID RECEPTOR (PCM-7825767 A02)*; 12 MONTHS $63,341

SUHADOLNIK, ROBERT J; *BIOLOGICAL PROPERTIES AND BIOSYNTHESIS OF IMPORTANT NATURALLY OCCURRING NUCLEOSIDE ANTIBIOTICS (PCM-8111752)*; 12 MONTHS $55,000

TEMPLE UNIVERSITY

BINKLEY, SUE A; *PINEAL FUNCTION IN BIRDS (PCM-8020798)*; 12 MONTHS $50,000

JENSEN, DAVID E; *NITROSO COMPOUND CHEMISTRY ASSOCIATED WITH THE DNA REPLICATION FORK (PCM-8104090)*; 12 MONTHS $52,000

THOMAS JEFFERSON UNIVERSITY-THOMAS JEFFERSON MEDICAL COLLEGE

SHERWIN, JOSEPH R; *REGULATION OF ENDOCRINE ORGAN BLOOD FLOW (PCM-7823375 A02)*; 12 MONTHS $36,400

UNIVERSITY OF PENNSYLVANIA-SCHOOL OF MEDICINE

VANDERKOOI, JANE; *RESONANCE RAMAN SPECTROSCOPY OF BIOLOGICAL CHROMOPHORES (PCM-7807954 A02)*; 12 MONTHS $31,000

OHNISHI, TOMOKO; *ELECTRON AND PROTON TRANSFER IN SUCCINATE-CYT. C REDUCTASE SEGMENT OF THE RESPIRATORY CHAIN (PCM-7816779 A02)*; 12 MONTHS $67,700

KENNETT, ROGER H; *CELL BIOLOGY EXAMINING HUMAN GENE REGULATION (PCM-7926757 A01)*; 12 MONTHS $155,000

CHANCE, BRITTON; *METALLOENZYMES, PROTEINS AND MODELS (PCM-8026634)*; 12 MONTHS $100,000

UNIVERSITY OF PENNSYLVANIA-SCHOOL OF VETERINARY MEDICINE

WOLF, BENJAMIN; *REGULATION OF LATENT AND NOMINAL ALLOTYPES (PCM-8013043 A01)*; 12 MONTHS $51,544

BRINSTER, RALPH L; *SECRETION OF PROTEINS BY THE MOUSE OVUM (PCM-8107172)*; 12 MONTHS $40,000

UNIVERSITY OF PENNSYLVANIA

SCHULTZ, RICHARD M; *RIBOSOME SYNTHESIS AND FUNCTION DURING OOCYTE GROWTH (PCM-7903973 A02)*; 12 MONTHS $64,862

GOTS, JOSEPH S; *GENE-ENZYME INTERACTIONS IN BACTERIA (PCM-7905753 A01)*; 12 MONTHS $55,000

DUTTON, PETER L; *PHYSICAL, CHEMICAL AND STRUCTURAL ASPECTS OF EARLY EVENTS IN BACTERIAL PHOTOSYNTHESIS (PCM-7909042 A02)*; 12 MONTHS $53,000

BONNER, WALTER D; *THE MOLECULAR BASIS OF ENERGY TRANSFER IN HIGHER AND LOWER PLANTS (PCM-7914596 A01)*; 12 MONTHS $80,000

PRINCE, ROGER C; *STRUCTURE AND FUNCTIONS OF THE MEMBRANE ASSOCIATED UBIQUINONE-CYTOCHROME B-C2 OXIDOREDUCTASE: ITS ISOLATION AND PHYSICAL PROPERTIES (PCM-7919598 A01)*; 12 MONTHS $40,000

YONETANI, TAKASHI; *HEME ENZYMES: STRUCTURE, MECHANISM AND FUNCTION (PCM-7922841 A01)*; 12 MONTHS $65,000

VANDERKOOI, JANE; *MOTION OF CYTOCHROME C DURING ELECTRON TRANSFER (PCM-8003125 A01)*; 12 MONTHS $55,000

KALLENBACH, NEVILLE R; *H-EXCHANGE AND LIGANDING REACTION AS PROBES OF STRUCTURE AND STRUCTURAL FLUCTUATIONS IN NUCLEIC ACIDS (PCM-8004043 A01)*; 12 MONTHS $58,000

ERICKSON, RALPH O; *GROWTH AND DEVELOPMENT OF HIGHER PLANTS (PCM-8011546 A01)*; 12 MONTHS $35,000

FRANZINI-ARMSTR, CLARA; *SEM OF SATELLITE CELLS AND PERICYTES (PCM-8021561)*; 24 MONTHS $50,000

TUAN, ROCKY S; *CALCIUM BINDING PROTEIN OF CHORIOALLANTOIC MEMBRANE (PCM-8022146)*; 12 MONTHS $30,000

AVADHANI, NARAYAN G; *REGULATION OF MITOCHONDRIAL MRNA IN MAMMALIAN CELLS (PCM-8022646)*; 24 MONTHS $90,000

BINNS, ANDREW N; *CROWN GALL: TUMOR PROGRESSION AND PLANT REGENERATION (PCM-8104064)*; 12 MONTHS $55,000

COOPERMAN, BARRY S; *TETRACYCLINE: MECHANISMS OF ACTION AND RESISTANCE (PCM-8104360)*; 12 MONTHS $60,000

KAUFFMAN, STUART A; *MONOCLONAL ANTIBODIES AGAINST CELL SURFACE ANTIGENS OF DROSOPHILA EMBRYOS (PCM-8110601)*; 12 MONTHS $35,000

PLACE, ALLEN R; *THE KINETIC MECHANISM OF THE METAL-FREE ALCOHOL DEHYDROGENASE FROM DROSOPHILA MELANOGASTER (PCM-8110819)*; 12 MONTHS $55,000

UNIVERSITY OF PITTSBURGH-SCHOOL OF MEDICINE

HOPPER, SARAH P; *RIBONUCLEOTIDE REDUCTASE OF RABBIT BONE MARROW (PCM-7923540 A01)*; 12 MONTHS $69,100

FRIED, VICTOR A; *BIOGENESIS AND ASSEMBLY OF THE LAC PERMEASE OF E. COLI (PCM-8011740 A01)*; 12 MONTHS $80,000

GILL, THOMAS J; *INTERNATIONAL CONFERENCE ON REPRODUCTIVE IMMUNOLOGY-BANFF, ALBERTA, CANADA, MAY 14-18, 1981 (PCM-8020803)*; 12 MONTHS $7,500

PUSCHETT, JULES B; *RENAL TUBULAR TRANSPORT OF BICARBONATE AND PHOSPHATE (PCM-8021238)*; 5 MONTHS $3,240

HUGHEY, REBECCA P; *BIOGENESIS OF RENAL BRUSH BORDER MEMBRANE PROTEINS (PCM-8021791)*; 24 MONTHS $80,000

UNIVERSITY OF PITTSBURGH

CAMPBELL, IAIN M; *SECONDARY METABOLISM IN PENICILLIUM (PCM-7803852 A02)*; 12 MONTHS $58,000

SUSSMAN, MAURICE; *CELL CONTACT AND CYTODIFFERENTIATION IN DICTYOSTELIUM (PCM-7905632 A02)*; 12 MONTHS $67,915

DE GROAT, WILLIAM C; *AUTONOMIC CONTROL OF URINARY BLADDER AND LARGE INTESTINE (PCM-7906093 A02)*; 12 MONTHS $90,080

HENDRIX, ROGER W; *ASSEMBLY OF BACTERIOPHAGE LAMBDA TAILS (PCM-7910461 A01)*; 12 MONTHS $30,000

GOTTLIEB, FREDERICK J; *MECHANISMS OF SYMBIONT-HOST RECOGNITION (PCM-7912062 A02)*; 12 MONTHS $84,618
CHAY, TERESA R; *METASTABILITIES AND OSCILLATORY PHENOMENA IN MEMBRANES AND CELLULAR SYSTEMS (PCM-7922483 A01)*; 12 MONTHS $38,000
FRANZEN, JAMES S; *STRUCTURE-FUNCTION RELATIONS IN UDP-GLUCOSE DEHYDROGENASE (PCM-8011711 A01)*; 12 MONTHS $46,000
PIPAS, JAMES M; *THE ROLE OF SV40 T-ANTIGENS IN TUMORIGENICITY (PCM-8021649)*; 12 MONTHS $55,000

WISTAR INSTITUTE

WHITTAKER, RICHARD; *ONTOGENY OF ACETYLCHOLINESTERASE DURING ASCIDIAN DEVELOPMENT (PCM-7904201 A01)*; $10,028
MITCHELL, KENNETH F; *ACQUISITION OF A CYTOFLUOROGRAPH SYSTEM 50H (PCM-8018708)*; 12 MONTHS $149,107

PUERTO RICO

UNIV OF PUERTO RICO MEDICAL SCIENCES CAMPUS

KRAISELBURD, EDMUNDO; *INDUCTION OF SOMATIC CELL MUTATIONS BY HERPES SIMPLEX (PCM-7901189 A01)*; 12 MONTHS $52,575

UNIVERSITY OF PUERTO RICO, RIO PIEDRAS

CANDELAS, GRACIELA C; *STUDIES ON TRANSLATION IN A SPIDER FIBROIN (PCM-8103284*)*; 12 MONTHS $35,000

RHODE ISLAND

BROWN UNIVERSITY

CANE, DAVID E; *ISOPRENOID BIOSYNTHESIS (PCM-7813230 A02)*; 12 MONTHS $47,370
JACKSON, DONALD C; *RESPIRATORY CONTROL AND ACID-BASE HOMEOSTASIS IN ECTOTHERMIC VERTEBRATES (PCM-7822333 A02)*; 12 MONTHS $60,705
GOLDSTEIN, LEON; *RENAL AMMONIA METABOLISM IN FISH (PCM-7921476 A01)*; 2 MONTHS $2,280
COLEMAN, ANNETTE W; *FUNCTIONAL ORGANIZATION OF CHLOROPLAST DNA (PCM-7923054 A01)*; 12 MONTHS $31,397
FAUSTO-STERLING, ANNE; *CELLULAR ADHESIVITY AND THE DETERMINED STATE IN IMAGINAL DISC CELLS OF D MELANOGASTER (PCM-7924063 A01)*; $12,043
FAUSTO-STERLING, ANNE; *CELLULAR ADHESIVITY AND THE DETERMINED STATE IN IMAGINAL DISC CELLS OF D MELANOGASTER (PCM-7924063 A02)*; 12 MONTHS $62,243
BEALE, SAMUEL I; *BIOSYNTHESIS OF AMINOLEVULINIC ACID IN PLANTS (PCM-8003730)*; 24 MONTHS $118,773
LANDY, ARTHUR, GERBI, SUSAN A, AND SHANK, PETER; *ACQUISITION OF EQUIPMENT FOR RESEARCH IN MOLECULAR GENETICS (PCM-8022812)*; 12 MONTHS $23,400
ROTHMAN, FRANK G, AND MARIN, FREDERICK T; *CELL DIFFERENTIATION IN DICTYOSTELIUM DISCOIDEUM (PCM-8104041)*; 12 MONTHS $55,000

GORDON RESEARCH CONFERENCES

CRUICKSHANK, ALEXANDER M; *GORDON RESEARCH CONFERENCE ON PROLACTIN; SANTA BARBARA, CA; FEBRUARY 2-6, 1981 (PCM-8023079)*; 6 MONTHS $7,560
CRUICKSHANK, ALEXANDER M; *GORDON RESEARCH CONFERENCES: JUNE 1 - AUGUST 31, 1981, NEW HAMPSHIRE (04M-8112365*)*; 12 MONTHS $80,900
CRUICKSHANK, ALEXANDER M; *GORDON RESEARCH CONFERENCE ON MAMMARY GLAND BIOLOGY (PCM-8115318*)*; 6 MONTHS $2,500
CRUICKSHANK, ALEXANDER M; *GORDON RESEARCH CONFERENCE ON DEVELOPMENTAL BIOLOGY, JULY 27-31, 1981; NEW HAMPSHIRE (PCM-8116401*)*; 6 MONTHS $5,400

UNIVERSITY OF RHODE ISLAND

MOTTINGER, JOHN P; *STUDIES ON THE GENETIC EFFECTS OF BARLEY STRIPE MOSAIC VIRUS IN MAIZE (PCM-8007867)*; 24 MONTHS $80,000
MOTTINGER, JOHN P; *STUDIES ON THE GENETIC EFFECTS OF BARLEY STRIPE MOSAIC VIRUS IN MAIZE (PCM-8007867 A01*)*; $7,000

SOUTH CAROLINA

CLEMSON UNIVERSITY

WHEELER, ALFRED P; *COLLABORATIVE RESEARCH ON CARBONATE CALCIFICATION: COMPARATIVE STUDIES OF UNIFYING MECHANISMS (PCM-7916587 A02)*; 12 MONTHS $23,400

MEDICAL UNIVERSITY OF SOUTH CAROLINA

LEDBETTER, JOHN W; *DYNAMIC COMPLEXES OF ASPARTATE AMINOTRANSFERASE (PCM-8003470 A01)*; 12 MONTHS $32,000
DELUCA, DOMINICK; *ACQUISITION OF NEW INSTRUMENTATION: FLUORESCENCE ACTIVATED CELL SORTER (PCM-8100276)*; 12 MONTHS $134,780
WARR, GREGORY W; *THE EVOLUTION OF LYMPHOCYTE RECOGNITION (PCM-8108872)*; 12 MONTHS $60,000

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

SODETZ, JAMES M; *INTERACTION OF CLOTTING FACTORS (PCM-7902281 A02)*; 12 MONTHS $19,240
DAWSON, JOHN H; *SPECTROSCOPIC STUDIES OF CYTOCHROME P-450 (PCM-7911518 A02)*; 12 MONTHS $31,000
ELY, BERT E; *GENETIC ANALYSIS OF DIFFERENTIATION IN CAULOBACTER CRESCENTUS (PCM-8003729 A01)*; 12 MONTHS $55,000
SAWYER, ROGER H; *CHORIONIC EPITHELIUM AND THE SCALELESS MUTANT CHICKEN (PCM-8011745 A01)*; 12 MONTHS $65,000
KISTLER, W S; *ACQUISITION OF A BECKMAN 890-C PROTEIN SEQUENCER AND WATERS HPLC SYSTEM (PCM-8018738)*; 12 MONTHS $65,000
LINCOLN, THOMAS M; *CYCLIC GMP-DEPENDENT PROTEIN KINASE IN CARDIAC AND SMOOTH MUSCLE (PCM-8021205)*; 12 MONTHS $51,922
HUANG, ANTHONY; *METABOLISM OF PROLINE AND BETAINE IN NORMAL AND WATER-STRESSED PLANT TISSUES (PCM-8021970)*; 24 MONTHS $91,213

TENNESSEE

EAST TENNESSEE STATE UNIVERSITY

ERNST-FONBERG, MARYLOU; *ENZYMES INVOLVED IN THE BIOSYNTHESIS OF MEMBRANES (PCM-7904062 A02)*; 12 MONTHS $40,000
MC DANIEL, MILDRED C; *CHARACTERIZATION OF TUMORICIDAL MACROPHAGE MEDIATORS (PCM-8007869 A01)*; 12 MONTHS $39,317
ROBERTSON, JOE L; *23RD SOUTHEASTERN DEVELOPMENTAL BIOLOGY CONFERENCE; MARCH 27-28, 1981; JOHNSON CITY, TENNESSEE (PCM-8108121)*; 6 MONTHS $2,080

ST JUDE CHILDREN'S RESEARCH HOSPITAL

AHMED, NAHED K; *SALVAGE MECHANISMS AND THE ROLE OF A NEW PHOSPHORYLATING ACTIVITY (PCM-8012099)*; 12 MONTHS $22,000
SCHONBAUM, GREGORY R; *THE PROPERTIES AND FUNCTION OF PEROXIDASES (PCM-8023973)*; 12 MONTHS $60,000

UNIVERSITY OF TENNESSEE AT KNOXVILLE

SKINNER, DOROTHY M; *EUKARYOTIC GENOME WITH EMPHASIS ON SATELLITE DNAS (PCM-7823573 A01)*; 12 MONTHS $75,000
HANDEL, MARY A; *STERILE MOUSE MUTANTS: SERTOLI AND GERM CELL FUNCTION (PCM-7904408 A02)*; 12 MONTHS $39,848
JEON, KWANG W; *ENDOSYMBIOSIS AND ORIGIN OF EUKARYOTIC CELL ORGANELLES (PCM-7921969 A01)*; 12 MONTHS $35,000
HENKE, RANDOLPH R; *SYMPOSIUM ON THE PROPAGATION OF HIGHER PLANTS THROUGH TISSUE CULTURE: EMERGING TECHNOLOGIES AND STRATEGIES, UNIVERSITY OF TENNESSEE-KNOXVILLE (PCM-8019413)*; 12 MONTHS $1,400
ETKIN, LAURENCE D; *REGULATION OF SEA URCHIN HISTONE GENES MICROINJECTED INTO XENOPUS LAEVIS EGGS AND OOCYTES (PCM-8023077)*; 24 MONTHS $100,000
BRATTSTEN, LENA B; *INTERACTIONS BETWEEN CARROT ALLELOCHEMICALS AND SOUTHERN ARMYWORM MICROSOMAL OXIDASES (PCM-8100081)*; 24 MONTHS $120,000
HECKMAN, CAROL A; *CELLULAR BASIS OF TRANSFORMATION (PCM-8110597)*; 12 MONTHS $35,816

UNIVERSITY OF TENNESSEE CENTER FOR HEALTH SCS

LAW, PETER K; *DEVELOPMENTAL ELECTROPHYSIOLOGY OF NORMAL AND DYSTROPHIC MOUSE MYOFIBERS (PCM-7921008 A02)*; 12 MONTHS $40,100
SHARMA, RAMESHWAR K; *REGULATION OF STEROIDOGENESIS (PCM-8008730 A01)*; 12 MONTHS $53,000

VANDERBILT UNIVERSITY-SCHOOL OF MEDICINE

MOYER, RICHARD W; *GENE REGULATION OF MAMMALIAN DNA VIRUSES (PCM-7823235 A02)*; 12 MONTHS $55,000

VANDERBILT UNIVERSITY

LESTOURGEON, WALLACE M; *NUCLEAR HNRNP PARTICLES IN THE MATURATION OF MRNA (PCM-7903839 A02)*; 12 MONTHS $65,000
TOUSTER, OSCAR; *BETA-GLUCURONIDASE AND THE BIOSYNTHESIS OF LYSOSOMES (PCM-7922805)*; 24 MONTHS $136,083
SEAVER, SALLY S; *HORMONAL REGULATION OF GENE EXPRESSION (PCM-7923025 A01)*; 12 MONTHS $50,000
DI SABATO, GIOVANNI; *STUDIES ON THE MECHANISM OF ACTION OF THYMOCYTE STIMULATING FACTOR (PCM-8011018 A01)*; 12 MONTHS $50,000
BIBRING, THOMAS; *CONTROL OF DIVERSITY IN MICROTUBULE SYSTEMS (PCM-8105681)*; 12 MONTHS $58,000

TEXAS

BAYLOR COLLEGE OF MEDICINE

WAKIL, SALIH J; *METABOLISM AND CONTROL OF FATTY ACIDS (PCM-7700969 A03)*; 12 MONTHS $38,000
RAMIG, ROBERT F; *THE GENETIC AND BIOPHYSICAL BASIS OF EX-TRAGENIC SUPPRESSION IN REOVIRUS (PCM-8002359)*; 24 MONTHS $75,000
SPECTOR, DAVID L; *ULTRASTRUCTURAL STUDIES OF FERTILIZATION AND MEIOSIS IN THE DINOFLAGELLATE CRYPTHECODINIUM COHNII (PCM-8104023)*; 24 MONTHS $60,000
KELLEMS, RODNEY E; *STRUCTURE AND FUNCTION OF AMPLIFIED GENES (PCM-8104533)*; 12 MONTHS $68,396
NOONAN, CHRISTINE A; *INTERACTION OF HUMAN PAPILLOMAVIRUS WITH CULTURED EPIDERMAL CELLS (PCM-8110333)*; 24 MONTHS $75,000

BAYLOR UNIVERSITY-BAYLOR UNIVERSITY MEDICAL CENTER

DOWBEN, ROBERT M; *MEMBRANE PROTEINS AND MODELS (PCM-7809313 A02)*; 12 MONTHS $46,900

RICE UNIVERSITY

MATTHEWS, KATHLEEN S; *CHEMICAL STUDIES OF LAC REPRESSOR PROTEIN AND OPERATOR DNA (PCM-8012048 A01)*; 12 MONTHS $40,000

SOUTHWEST FOUNDATION FOR RESEARCH & EDUCATION

WEISS, STEFAN A, KALTER, S S, AND SMITH, GEORGE C; *PRODUCTION OF NUCLEAR POLYHEDROSIS VIRUS IN LARGE SCALE CELL CULTURE SYSTEM (PCM-8021956)*; 18 MONTHS $119,939

TEXAS A & M UNIVERSITY

VINSON, S B; *INSECT IMMUNE MECHANISMS ASSOCIATED WITH THE PARASITOID-HOST RELATIONSHIP (PCM-8021646)*; 12 MONTHS $34,508

O'DONOVAN, GERARD A, AND WILD, JAMES R; *CATALYTIC AND REGULATORY PROPERTIES OF HYBRID ATCASES FORMED WITH NATIVE SUBUNITS FROM DIVERGENT BACTERIA (PCM-8021983)*; 12 MONTHS $45,000

SUMMERS, MAX D, AND VINSON, S B; *CHARACTERIZATION AND BIOLOGICAL SIGNIFICANCE OF PARASITOID VIRUSES (PCM-8021992)*; 12 MONTHS $48,326

NESSLER, CRAIG L; *THE ROLE OF CELLULASE AND PECTINASE IN LATICIFER DIFFERENTIATION (PCM-8025003)*; 24 MONTHS $51,871

KEELEY, LARRY L; *NEUROHORMONAL REGULATION OF CYTOCHROME BIOSYNTHESIS IN INSECTS (PCM-8103277)*; 24 MONTHS $100,000

BENEDICT, CHAUNCEY R; *THE METABOLIC ACTION OF BIOREGULATORS IN THE INDUCTION OF CIS-POLYISOPRENES (RUBBER) IN GUAYULE PLANTS (PCM-8104623)*; 12 MONTHS $81,644

FRYXELL, GRETA A; *CRYOPRESERVATION OF MARINE PHYTOPLANKTON (PCM-8107860)*; 36 MONTHS $93,990

TEXAS TECH UNIVERSITY-HEALTH SCIENCES CENTER

PANG, PETER K; *CALCIUM-REGULATING AND VASCULAR ACTIONS OF SOME HORMONES IN LOWER VERTEBRATES (PCM-8105425)*; 12 MONTHS $54,852

TEXAS TECH UNIVERSITY

SONG, PILL-SOON; *PRIMARY MOLECULAR PROCESSES OF PHYTOCHROME (PCM-7906806 A02)*; 12 MONTHS $30,000

KNAFF, DAVID B; *ELECTRON FLOW AND METABOLITE UPTAKE IN PHOTOSYNTHETIC ORGANISMS (PCM-8109635)*; 12 MONTHS $52,000

UNIV OF TEXAS AT AUSTIN-MARINE SCIENCE INSTITUTE AT PORT ARANSAS

CAMERON, JAMES N; *PH AND ACID-BASE REGULATION IN ECTOTHERMS (PCM-8020982)*; 12 MONTHS $51,000

UNIV OF TEXAS AT AUSTIN

HARDESTY, BOYD A; *THE MECHANISM BY WHICH RIBOSOMES FORM PEPTIDES (PCM-7813632 A03)*; $15,000

TABITA, F R; *REGULATION OF PHOTOSYNTHETIC CARBON METABOLISM (PCM-7815111 A02)*; 12 MONTHS $34,796

THOMPSON, GUY A; *BIOCHEMICAL REGULATION OF MEMBRANE FORM AND FUNCTION (PCM-7824205 A02)*; 12 MONTHS $69,058

RIGGS, AUSTEN F; *BIOCHEMISTRY OF HEMOGLOBINS AND OXYGEN TRANSPORT (PCM-7904053 A02)*; 12 MONTHS $25,000

MEYER, RICHARD J; *INCOMPATIBILITY AND REPLICATION OF BROAD HOST-RANGE PLASMIDS (PCM-8002628 A01)*; $8,007

BROWN, DENNIS T; *THE DEVELOPMENT OF VIRAL ANTIGENS (PCM-8004302 A01)*; 12 MONTHS $45,000

FORREST, HUGH S; *THE BIOCHEMISTRY OF METHOXATIN - A NEW COENZYME (PCM-8014340 A01)*; 12 MONTHS $30,000

THOMPSON, GUY A; *THE INFLUENCE OF MEMBRANE FLUIDITY ON METABOLIC REGULATION BY CYCLIC NUCLEOTIDES AND CALCIUM IN TETRAHYMENA (PCM-8023950)*; 12 MONTHS $40,000

WALKER, JAMES R; *REGULATION OF BACTERIAL CELL DIVISION (PCM-8102796)*; 12 MONTHS $60,000

ROUX, STANLEY J; *CHARACTERIZATION OF PHYTOCHROME INTERACTION WITH MEMBRANES (PCM-8103429)*; 12 MONTHS $56,000

RANKIN, MARY ANN; *HORMONAL CONTROL OF INSECT MIGRATORY BEHAVIOR (PCM-8110568)*; 12 MONTHS $57,947

HURLEY, LAURENCE H; *BIOSYNTHETIC STUDIES ON THE PYRROLO(1,4)BENZODIAZEPINE & LINCOMYCIN ANTIBIOTICS (PCM-8111524*)*; 24 MONTHS $14,463

UNIV OF TEXAS AT DALLAS

BREEN, GAIL A; *MAMMALIAN MUTANTS WITH ALTERATIONS IN THE MITOCHONDRIAL ATPASE (PCM-8011249)*; 12 MONTHS $45,000

UNIV OF TEXAS HEALTH SCI CENTER AT SAN ANTONIO

REITER, RUSSEL J; *PINEAL-REPRODUCTIVE INTERACTIONS (PCM-8003441 A01)*; $8,750

REITER, RUSSEL J; *PINEAL-REPRODUCTIVE INTERACTIONS (PCM-8003441 A02)*; 12 MONTHS $66,600

CAMERON, IVAN L; *ANALYSIS AND CONTROL OF RAPIDLY DIVIDING CELL POPULATIONS (PCM-8104084)*; 24 MONTHS $99,933

MONTGOMERY, DONNA L; *REGULATION OF ISO-2-CYTOCHROME C UP-MUTATIONS (PCM-8110892)*; 24 MONTHS $110,000

UNIV OF TEXAS HEALTH SCIENCE CENTER AT DALLAS-UNIV OF TEXAS GRAD SCHOOL OF BIOMEDICAL SCI

MAC DONALD, RAYMOND J; *ORGANIZATION AND EXPRESSION OF PANCREATIC SERINE PROTEASE GENES (PCM-8006231 A01)*; 12 MONTHS $55,000

UNIV OF TEXAS HEALTH SCIENCE CENTER AT DALLAS

CAPRA, J DONALD; *ACQUISITION OF AN AMINO ACID ANALYZER (PCM-8019708)*; 12 MONTHS $65,000

SHAY, JERRY W; *INHERITANCE OF CENTRIOLES (PCM-8023070)*; 24 MONTHS $64,591

UNIV OF TEXAS HEALTH SCIENCE CENTER AT DALLAS-UNIV OF TEXAS SOUTHWESTERN MEDICAL SCHOOL

CAPRA, J DONALD; *IMMUNOCHEMICAL AND IMMUNOGENETIC STUDIES OF GAMMA GLOBULIN (PCM-7923480 A01)*; 12 MONTHS $52,000

UNIV OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON-UNIVERSITY OF TEXAS MEDICAL SCHOOL AT HOUSTON

ANDREOLI, THOMAS E; *TRANSPORT PHENOMENA IN ISOLATED RENAL TUBULES AND LIPID BILAYER MEMBRANES (PCM-7906802 A02)*; 12 MONTHS $91,896

BERGET, PETER B; *MOLECULAR MECHANISMS OF PHAGE T4 BASE-PLATE ASSEMBLY (PCM-8104523)*; 12 MONTHS $47,000

UNIV OF TEXAS MEDICAL BRANCH AT GALVESTON-UNIV OF TEXAS MARINE BIOMEDICAL INSTITUTE

BLANKENSHIP, JAMES E; *NEUROBIOLOGY OF REPRODUCTION IN APLYSIA (PCM-7912175 A02)*; 12 MONTHS $41,700

UNIV OF TEXAS MEDICAL BRANCH AT GALVESTON

KUNZE, DIANA L; *IONIC SENSITIVITY OF BARORECEPTOR REFLEXES (PCM-7823216 A01)*; 24 MONTHS $130,000

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

MAILMAN, DAVID S; *OPIATE EFFECTS ON GUT TRANSPORT AND BLOOD FLOW (PCM-7825867 A02)*; 12 MONTHS $41,400

MCCAMMON, JAMES A; *THEORY OF BIOMOLECULAR STRUCTURE AND DYNAMICS (PCM-7827035 A02)*; 12 MONTHS $43,000

HAZELWOOD, ROBERT L; *RELEASE AND BASIC PHYSIOLOGY OF AVIAN PANCREATIC POLYPEPTIDE (PCM-8003688 A01)*; 12 MONTHS $38,000

BAUST, JOHN G; *LOW TEMPERATURE AND FREEZING TOLERANCE IN INSECTS (PCM-8110327)*; 12 MONTHS $31,612

UTAH

BRIGHAM YOUNG UNIVERSITY

ROBERTSON, DONALD L; *MOUSE MAMMARY TUMOR VIRUS GENE EXPRESSION AND ONCOGENESIS (PCM-8104636)*; 24 MONTHS $75,000

UNIVERSITY OF UTAH-COLLEGE OF MEDICINE

ASH, JOHN F; *THE PROCESSING OF CLUSTERED MEMBRANE PROTEINS (PCM-8011153)*; 12 MONTHS $45,000

CASJENS, SHERWOOD; *DNA PACKAGING BY BACTERIOPHAGE P22 (PCM-8017177)*; 12 MONTHS $36,000

SUMMERS, DONALD F; *COMPOSITION AND MATURATION OF VESICULAR STOMATITIS VIRUS AND ITS INTERACTION WITH HOST CELLS (PCM-8110986)*; 12 MONTHS $60,000

UNIVERSITY OF UTAH

FRANKLIN, NAOMI C; *GENETIC DESCRIPTION OF THE N PROTEIN OF BACTERIOPHAGE LAMBDA (PCM-8009356)*; 12 MONTHS $77,926

LARK, KARL G; *SOMATIC GENETICS OF PLANT CELLS IN SUSPENSION CULTURE (PCM-8010771)*; 12 MONTHS $31,431

SCHWEIZER, MARTIN P; *FUNCTION OF UNUSUAL NUCLEOSIDES IN TRANSFER RNA (PCM-8022615)*; 12 MONTHS $67,000

UTAH STATE UNIVERSITY

TAKEMOTO, JON Y, AND FARLEY, THOMAS M; *TOPOGRAPHICAL STUDIES OF BACTERIAL PHOTOSYNTHETIC MEMBRANES (PCM-8103246)*; 24 MONTHS $40,000

VAN ALFEN, NEAL K; *THE NATURE OF HYPOVIRULENCE OF ENDOTHIA PARASITICA (PCM-8103255)*; 12 MONTHS $70,830

ANDERSON, ANNE J; *THE ROLE OF FUNGAL ELICITORS IN PLANT-PATHOGEN SPECIFICITY (PCM-8105128)*; 12 MONTHS $40,016

VERMONT

UNIVERSITY OF VERMONT

PENNYPACKER, JOHN P; *CELL SURFACE-EXTRACELLULAR MATRIX INTERACTIONS (PCM-8003769 A01)*; 12 MONTHS $53,096

WILSON, THOMAS G; *JUVENILE HORMONE AND DROSOPHILA DEVELOPMENT (PCM-8112221)*; 12 MONTHS $35,000

VIRGINIA

COLLEGE OF WILLIAM AND MARY

MANGUM, CHARLOTTE P; *THE ADAPTABILITY OF HEMOCYANIN-OXYGEN TRANSPORT SYSTEMS TO PHYSIOLOGICAL AND ENVIRONMENTAL CHANGE (PCM-8018709)*; 12 MONTHS $28,895

UNIVERSITY OF VIRGINIA-SCHOOL OF MEDICINE

ENGELHARD, VICTOR H; *ANTIGEN STIMULATION OF CYTOTOXIC T LYMPHOCYTE PRECURSORS (PCM-8104358)*; 12 MONTHS $48,718

KING, MARY LOU; *RECRUITMENT OF MATERNAL MRNA DURING EMBRYOGENESIS (PCM-8112215)*; 12 MONTHS $60,000

UNIVERSITY OF VIRGINIA

WAGNER, ROBERT R; *REGULATORY FUNCTIONS AND STRUCTURE OF VIRAL GLYCOPROTEINS AND MEMBRANES (PCM-7700494 A04)*; 12 MONTHS $55,400

SCHNAITMAN, CARL A; *STRUCTURAL PROTEINS OF BACTERIAL MEMBRANES (PCM-7809817 A02)*; 12 MONTHS $40,000

FLICKINGER, CHARLES J; *SECRETION IN THE EPIDIDYMIS (PCM-7922242 A01)*; 12 MONTHS $54,765

HECHT, SIDNEY M; *AMINO ACID SUBSTITUTIONS IN BACTERIOPHAGE T4 LYSOZYME (PCM-7913063 A01)*; 12 MONTHS $36,000

BILTONEN, RODNEY L; *LIPID STRUCTURAL FLUCTUATIONS AND MEMBRANE FUNCTION (PCM-8003645 A01)*; 12 MONTHS $53,000

REBHUN, LIONEL I; *ANALYSIS OF MITOSIS IN MAMMALIAN CELLS USING SOMATIC CELL GENETICS (PCM-8011676)*; 12 MONTHS $50,000

LITMAN, BURTON J; *THE EFFECT OF PROTEIN-PHOSPHOLIPID INTERACTIONS ON THE CONFORMATIONAL STABILITY OF MEMBRANE PROTEIN (PCM-8012028 A01)*; 12 MONTHS $50,000

BLOODGOOD, ROBERT A; *DYNAMIC PROPERTIES OF THE FLAGELLAR MEMBRANE (PCM-8102883)*; 12 MONTHS $48,326

HANSON, MAUREEN R; *FATE OF PLASTID GENOMES FOLLOWING PLANT PROTOPLAST FUSION (PCM-8104281*)*; 12 MONTHS $45,000

BRILL, ARTHUR S; *MAGNETIC STUDIES OF TRANSITION METAL IONS COORDINATED TO PROTEINS AND TO PROSTHETIC GROUPS (PCM-8104377)*; 12 MONTHS $62,500

BEYER, ANN L; *HNRNP STRUCTURE IN ADENOVIRUS-2 INFECTED HELA CELLS (PCM-8110324)*; 12 MONTHS $45,000

VIRGINIA COMMONWEALTH UNIVERSITY-HEALTH SCIENCES DIVISION

PHIBBS, PAUL V; *REGULATION OF CARBOHYDRATE UTILIZATION BY PSEUDOMONAS (PCM-8003887)*; 24 MONTHS $60,000

VIRGINIA COMMONWEALTH UNIVERSITY

BOND, JUDITH S, AND BRADLEY, S GAYLEN; *PROTEIN CATABOLISM IN THE REGULATION OF NOCARDIA (PCM-7807868 A02)*; 12 MONTHS $46,180

SCHIRCH, LAVERNE; *MECHANISM OF ENZYMES INVOLVED IN ONE-CARBON METABOLISM (PCM-8110363)*; 12 MONTHS $45,000

VIRGINIA POLYTECHNIC INSTITUTE

FERRY, JAMES G; *HYDROGENASE - AND FORMATE DEHYDROGENASE - LINKED ELECTRON TRANSPORT IN METHANOGENIC BACTERIA (PCM-7812148 A01)*; 24 MONTHS $80,000

ROSS, MARY H; *CHROMOSOME BEHAVIOR AND ITS CONTROL IN TRANSLOCATION HETEROZYGOTES OF BLATTELLA GERMANICA (PCM-8001620 A01)*; 12 MONTHS $26,721

STORRIE, BRIAN; *METABOLISM OF ENDOCYTIC MEMBRANE IN FIBROBLASTS (PCM-8020967)*; 12 MONTHS $47,173

BATES, ROBERT C; *REPLICATION OF PARVOVIRUS DNA (PCM-8021787)*; 12 MONTHS $45,000

MCNABB, ROGER A; *OSMOREGULATION IN THE AVIAN EMBRYO (PCM-8021881)*; 24 MONTHS $46,117

WASHINGTON

CHILDREN'S ORTHOPEDIC HOSPITAL & MEDICAL CTR

ROBERTS, MARILYN, AND SMITH, ARNOLD L; *HAEMOPHILUS INFLUENZAE CAPSULATION GENETICS (PCM-8104070)*; 24 MONTHS $90,000

EVERGREEN STATE COLLEGE

KUTTER, ELIZABETH M; *GENETIC REGULATORY MECHANISMS OF BACTERIOPHAGE T4 (PCM-7905626 A01)*; 12 MONTHS $40,000

FRED HUTCHINSON CANCER RESEARCH CENTER

GROUDINE, MARK T; *THE REGULATION OF EXPRESSION OF CELLULAR AND ENDOGENOUS RETROVIRAL GENES (PCM-7903675 A02)*; 12 MONTHS $50,000

NEWMAN, WALTER; *THE SPECIFICITY OF HUMAN CYTOTOXIC CELLS (PCM-8008749 A01)*; 12 MONTHS $30,091

UNIVERSITY OF WASHINGTON-SCHOOL OF MEDICINE

STORM, DANIEL R; *MECHANISM FOR HORMONAL STIMULATION OF ADENYLATE CYCLASE (PCM-8007327 A01)*; 12 MONTHS $38,600

MOTTET, N K; *ATOMIC ABSORPTION SPECTROPHOTOMETER (PCM-8007875)*; 12 MONTHS $25,000

LOEB, LAWRENCE A; *THE MOLECULAR BASIS OF MUTAGENESIS (PCM-8018838)*; 12 MONTHS $23,000

MORRIS, DAVID R; *REGULATION OF EARLY EVENTS IN LYMPHOCYTE MITOGENESIS (PCM-8021132)*; 12 MONTHS $45,000

COOK, DANIEL L; *ISLET CELL ELECTRICAL PACEMAKER MECHANISMS (PCM-8108286)*; 24 MONTHS $90,000

HERRIOTT, JON R; *THE STRUCTURE OF FERREDOXIN REDUCTASE (PCM-8109700)*; 12 MONTHS $47,500

UNIVERSITY OF WASHINGTON

STORB, URSULA; *CLONING OF IMMUNOGLOBULIN GENES (PCM-7813205 A02)*; 12 MONTHS $60,000

WAALAND, SUSAN D; *CONTROL OF DEVELOPMENT IN THE RED ALGA GRIFFITHSIA (PCM-7823240 A01)*; 24 MONTHS $100,000

STERN, EDWARD A, AND PARSON, WILLIAM W; *STUDIES ON BIOLOGICAL SYSTEMS WITH EXAFS (PCM-7903674 A02)*; 12 MONTHS $49,500

POCKER, YESHAYAU; *RELATIONSHIPS BETWEEN ACTIVITY AND STRUCTURE OF ENZYMES (PCM-7921417 A01)*; 12 MONTHS $45,000

GORBMAN, AUBREY; *CYCLOSTOME ENDOCRINOLOGY (PCM-8002352 A01)*; 12 MONTHS $70,000

RIDDIFORD, LYNN M; *CHEMICAL CONTROL OF INSECT METAMORPHOSIS AND BEHAVIOR (PCM-8011152)*; 12 MONTHS $56,000

PARSON, WILLIAM W; *LASER FLASH STUDIES OF BACTERIAL PHOTOSYNTHESIS (PCM-8016593 A01)*; 12 MONTHS $75,000

FARNER, DONALD S; *ENVIRONMENTAL INFORMATION AND ENDOGENOUS PERIODIC FUNCTIONS IN THE CONTROL OF REPRODUCTIVE AND RELATED CYCLES (PCM-8018019)*; 12 MONTHS $40,756

REID, BRIAN R, AND KWIRAM, ALVIN L; *HIGH RESOLUTION NMR STUDIES OF BIOCHEMICAL SYSTEMS (PCM-8018053*)*; 12 MONTHS $120,000

MARTIN, GEORGE M; *FLUORESCENCE ACTIVATED CELL SORTER (PCM-8020805)*; 12 MONTHS $181,674

TRUMAN, JAMES W; *FUNCTIONS OF HORMONES AND CIRCADIAN RHYTHMS IN THE REGULATION OF INSECT BEHAVIOR (PCM-8020975)*; 12 MONTHS $50,000

AGABIAN, NINA; *SPATIAL CONTROL OF CELL DEVELOPMENT IN CAULOBACTER (PCM-8021551)*; 12 MONTHS $35,000

AGABIAN, NINA; *ANTIGENIC VARIATION IN TRYPANOSOMA B. GAMBIENSE (PCM-8021995)*; 12 MONTHS $45,000

CATTOLICO, ROSE A; *ORGANELLE BIOGENESIS IN MULTIPLASTIDIC CELLS (PCM-8022653)*; 12 MONTHS $46,944

SCHURR, J M; *DYNAMICS OF ELEMENTARY PROCESSES IN SOLUTIONS OF BIOPOLYMERS AND BIOCOLLOIDS (PCM-8022822)*; 12 MONTHS $75,000

SCHUBIGER, GEROLD A; *EMBRYOGENESIS AND DISC DEVELOPMENT IN DROSOPHILA (PCM-8024535)*; 12 MONTHS $58,000

NESTER, EUGENE W; *GENETIC ANALYSIS OF HOST RANGE IN AGROBACTERIUM TUMEFACIENS (PCM-8104310)*; 24 MONTHS $74,461

HWANG, KARL J; *ROLES OF INTERNALIZED INSULIN IN HORMONAL ACTION (PCM-8105141)*; 24 MONTHS $80,000

REID, BRIAN R; *STRUCTURE AND FUNCTION OF TRANSFER RNA (PCM-8140603)*; 12 MONTHS $49,999

WASHINGTON STATE UNIVERSITY

POOVAIAH, B W; *CHARACTERIZATION OF IN VITRO AUXIN BINDING TO MEMBRANES FROM DEVELOPING FRUIT TISSUES (PCM-7805292 A02)*; 12 MONTHS $37,504

LOEWUS, FRANK A; *BIOSYNTHESIS AND METABOLISM OF ASCORBIC ACID IN PLANTS (PCM-7813254 A02)*; 12 MONTHS $36,270

FISHER, DONALD B; *INVESTIGATIONS OF SIEVE TUBE PHYSIOLOGY WITH PHLOEM-FEEDING INSECTS (PCM-7815253 A02)*; 12 MONTHS $36,097

CROTEAU, RODNEY; *BIOSYNTHESIS OF MONOTERPENES (PCM-7819417 A02)*; 12 MONTHS $44,672

WINDSOR, MAURICE W; *ELECTRON TRANSFER IN BACTERIAL PHOTOSYNTHESIS AND IN MODEL SYSTEMS (PCM-7902911 A02)*; 12 MONTHS $38,000

MC FADDEN, BRUCE A; *ISOCITRATE LYASE AND THE GLYOXYLATE CYCLE (PCM-7909786 A01)*; 12 MONTHS $47,000

KIRSCHNER, LEONARD B; *SOLUTE AND WATER FLUXES ACROSS REGULATORY EPITHELIA (PCM-8003800 A01)*; 12 MONTHS $44,000

KOLATTUKUDY, P E; *STRUCTURE, BIOSYNTHESIS AND DEGRADATION OF THE BIOPOLYMERS CUTIN AND SUBERIN (PCM-8007908)*; 12 MONTHS $95,156

KENNEDY, ROBERT A; *ANAEROBIC METABOLISM IN ECHINOCHILOA SEEDS (PCM-8010958)*; 24 MONTHS $104,092

KLEINHOFS, ANDRIS; *THE MOLECULAR CHARACTERIZATION OF THE NITRATE REDUCTASE GENE IN HORDEUM VULGARE (PCM-8011348)*; 24 MONTHS $80,000

RYAN, CLARENCE A; *STRUCTURE AND MODE OF ACTION OF PIIF, A PLANT WOUND HORMONE (PCM-8023285)*; 12 MONTHS $48,815

CROTEAU, RODNEY, KOLATTUKUDY, P E, LOEWUS, FRANK A, AND RYAN, CLARENCE A; *ACQUISITION OF A SHARED CAPILLARY GAS LIQUID CHROMATOGRAPH MASS SPECTROMETER FOR METABOLIC STUDIES (PCM-8100068)*; 12 MONTHS $85,000

EDWARDS, GERALD E; *PHOTOSYNTHETIC METABOLISM IN ISOLATED CELLS AND PROTOPLASTS FROM C3 AND C4 PLANTS (PCM-8107953*)*; 12 MONTHS $35,371

THORGAARD, GARY H; *CHROMOSOME SET MANIPULATION IN THE RAINBOW TROUT (PCM-8108787)*; 36 MONTHS $111,706

WEST VIRGINIA

U S FISH & WILDLIFE SERVICE-NATIONAL FISH HEALTH LABORATORY

ANDERSON, DOUGLAS P, AND GRANT, BLAKE F; *FISH BIOLOGICS SYMPOSIUM: SERODIAGNOSTICS AND VACCINES (PCM-8026742)*; 6 MONTHS $6,536

WEST VIRGINIA UNIVERSITY

THOMPSON, HERBERT A; *PROTEIN SYNTHESIS IN BACTERIA (PCM-7903282 A02)*; 12 MONTHS $45,000

WISCONSIN

MARQUETTE UNIVERSITY

WARING, GAIL L; *DEVELOPMENTAL REGULATION OF DROSOPHILA CHORIOGENESIS (PCM-7823385 A02)*; 12 MONTHS $47,043

MEDICAL COLLEGE OF WISCONSIN

ANKEL, HELMUT K; *GLYCOPROTEIN CELL MEMBRANE INTERACTION (PCM-7684125 A03)*; $7,000

HYDE, JAMES S; *MULTIPROBE STUDIES ON MELANIN (PCM-7823206 A02)*; 12 MONTHS $44,000

GHAZARIAN, JACOB G; *ENZYMES IN THE VITAMIN D3 ENDOCRINE COMPLEX (PCM-7823267 A02)*; 12 MONTHS $22,828

ANKEL, HELMUT K; *GLYCOPROTEIN CELL MEMBRANE INTERACTION: INTERACTION OF INTERFERONS WITH CELL MEMBRANE GRYCOCONJUGATES (PCM-8024539*)*; 24 MONTHS $65,000

HERMAN, TIMOTHY M; *THE MOLECULAR MECHANISM OF CHROMATIN ASSEMBLY (PCM-8103295)*; 24 MONTHS $98,000

SOCIETY FOR DEVELOPMENTAL BIOLOGY

GREEN, PAUL B; *DEVELOPMENTAL ORDER: ITS ORIGIN AND REGULATION; UNIVERSITY OF COLORADO, BOULDER; JUNE 8-10, 1981 (PCM-8103201)*; 6 MONTHS $11,500

UNIVERSITY OF WISCONSIN SYSTEM OFFICE

FALLON, JOHN F; *CELLULAR CHARACTERISTICS DURING LIMB DEVELOPMENT (PCM-7903980 A02)*; 12 MONTHS $53,000

UNIVERSITY OF WISCONSIN-MADISON

BRILL, WINSTON J; *BIOCHEMISTRY AND GENETICS OF NITROGEN FIXATION (PCM-7624271 A04)*; 12 MONTHS $81,500

HANSON, RICHARD S; *METHYLOTROPHIC BACTERIA: ISOLATION AND CHARACTERIZATION (PCM-7809744 A02)*; 12 MONTHS $31,910

SONNEBORN, DAVID R; *DEVELOPMENTAL ANALYSES OF BLASTOCLADIELLA EMERSONII (PCM-7815334 A02)*; 12 MONTHS $75,000

CLELAND, WILLIAM W; *STEREOCHEMISTRY OF MGATP AS A SUBSTRATE (PCM-7823345 A02)*; 12 MONTHS $25,000

ADLER, JULIUS; *MOLECULAR BIOLOGY OF CHEMOSENSING IN BACTERIAL CHEMOTAXIS (PCM-7826573 A02)*; 12 MONTHS $53,000

CHEN, CHONG M; *ON THE MECHANISM OF CYTOKININ IN CELL DIVISION AND DIFFERENTIATION (PCM-7903832 A02)*; 12 MONTHS $47,615

RECORD, M T; *ELECTROSTATIC COMPONENT OF PROTEIN-NUCLEIC ACID INTERACTIONS (PCM-7904607 A02)*; 12 MONTHS $50,000

GERLOFF, GERALD C; *EFFICIENCY IN PHOSPHORUS UPTAKE AND DISTRIBUTION BY PLANTS (PCM-7909808 A01)*; 12 MONTHS $46,999

BITTAR, E EDWARD; *QUANTITATIVE ASPECTS OF MYOPLASMIC ATP IN SINGLE MUSCLE FIBERS (PCM-7910101 A01)*; 12 MONTHS $23,772

NOMURA, MASAYASU; *STRUCTURE, FUNCTION AND ASSEMBLY OF RIBOSOMES (PCM-7910616 A02)*; 12 MONTHS $100,000

NELSON, OLIVER E; *CONTROLLING ELEMENTS IN MAIZE: AN EXAMINATION OF THEIR EFFECT ON GENE FUNCTION (PCM-7910652 A02)*; 12 MONTHS $52,867

SELMAN, BRUCE R; *ENERGY CONSERVATION IN HIGHER PLANT CHLOROPLASTS (PCM-7911025 A02)*; 12 MONTHS $30,000

GIBBONS, WILLIAM A; *NMR STUDIES OF ANTIBIOTIC PEPTIDES (PCM-7911568 A02)*; 12 MONTHS $50,000

O'LEARY, MARION H; *HEAVY-ATOM ISOTOPE EFFECTS IN BIOCHEMICAL SYSTEMS (PCM-7922697 A01)*; 12 MONTHS $36,000

O'LEARY, MARION H; *HEAVY-ATOM ISOTOPE EFFECTS IN BIOCHEMICAL SYSTEMS (PCM-7922697 A02)*; $13,500

WELLS, ROBERT D; *STUDIES WITH DEFINED DEOXYRIBONUCLEIC ACIDS (PCM-8002622)*; 12 MONTHS $68,000

QUAIL, PETER H, AND NEWCOMB, ELDON H; *LIGHT-REGULATED PLANT DEVELOPMENT: MODE OF ACTION AND SUBCELLULAR LOCALIZATION OF PHYTOCHROME (PCM-8003792 A01)*; 12 MONTHS $65,000

QUAIL, PETER H; *LIGHT-REGULATED PLANT DEVELOPMENT: MODE OF ACTION AND SUBCELLULAR LOCALIZATION OF PHYTOCHROME (PCM-8003792 A02*)*; 12 MONTHS $15,000

EVERT, RAY F; *LEAF STRUCTURE IN RELATION TO SOLUTE TRANSPORT AND PHLOEM LOADING (PCM-8003855 A01)*; 12 MONTHS $50,000

KAHAN, LAWRENCE; *MONOCLONAL ANTIBODIES AS PROBES OF EUCARYOTE RIBOSOME STRUCTURE (PCM-8004597 A01)*; 12 MONTHS $38,000

BECKER, WAYNE M; *REGULATION OF GENE EXPRESSION AND ENZYME COMPARTMENTALIZATION IN GERMINATING FAT-STORING SEEDS (PCM-8009444 A01)*; 12 MONTHS $70,000

CROXDALE, JUDITH; *ENZYMES AND METABOLITES OF CARBOHYDRATE OXIDATION WITHIN VEGETATIVE HEBE SHOOT APICES (PCM-8010957 A01)*; 12 MONTHS $19,891

SEQUEIRA, LUIS; *RECOGNITION IN HOST-PARASITE INTERACTIONS (PCM-8017713)*; 12 MONTHS $75,000

GANETZKY, BARRY S; *GENETICS OF SEGREGATION DISTORTION IN DROSOPHILA (PCM-8102325)*; 12 MONTHS $64,938

PORTER, JOHN W; *ENZYMES SYNTHESIZING CAROTENES IN PLANTS (PCM-8102805)*; 24 MONTHS $67,170

HOWE, MARTHA M; *THE ANALYSIS OF GENE FUNCTION AND REGULATION IN BACTERIOPHAGE MU (PCM-8109769)*; 12 MONTHS $70,638

DIMOND, RANDALL L; *GENE REGULATION DURING EARLY DEVELOPMENT IN DICTYOSTELIUM (PCM-8110987)*; 24 MONTHS $60,000

LUDDEN, PAUL W; *ENZYMES INVOLVED IN REGULATION OF NITROGENASE ACTIVITY (PCM-8140864*)*; 12 MONTHS $38,090

UNIVERSITY OF WISCONSIN-MILWAUKEE

COLLINS, MARY L P; *FUNCTIONAL ORGANIZATION OF THE BACTERIAL CHROMATOPHORE MEMBRANE (PCM-8024536)*; 12 MONTHS $36,700

WYOMING

UNIVERSITY OF WYOMING

NOE, LEWIS J, AND GUZZO, ANTHONY V; *A PICOSECOND SPECTROSCOPIC STUDY OF HEME-PROTEINS (PCM-7816199 A02)*; 12 MONTHS $30,000

VILLEMEZ, CLARENCE L; *FORMATION OF AN ACANTHAMOEBA CYST WALL COMPONENT (PCM-7912319 A01)*; 6 MONTHS $12,000

GERN, WILLIAM A; *INDOLEAMINE METABOLISM IN PHOTORECEPTORS (PCM-7923143 A01)*; 12 MONTHS $29,339

HIGGINS, NORMAN P; *BIOCHEMICAL STUDIES OF BACTERIOPHAGE MU TRANSPOSITION (PCM-8004589 A01)*; 12 MONTHS $35,000

MIDDAUGH, CHARLES R; *ABNORMAL PROTEIN SOLUBILITY (PCM-8011193 A01)*; 12 MONTHS $34,870

GERN, WILLIAM A, AND JENKINS, ROBERT A; *LIQUID SCINTILLATION COUNTER (PCM-8018051)*; 12 MONTHS $25,000

JOHNSON, JERRY D; *IN VIVO EXPRESSION OF MODIFIED YEAST RNA GENES (PCM-8021366)*; 12 MONTHS $62,763

RAY, BIBEK; *DEVELOPMENT OF A DRYING METHOD TO REDUCE DEATH AND INJURY OF LACTOBACILLUS ACIDOPHILUS USED AS A DIETARY ADJUNCT (PCM-8022411)*; 36 MONTHS $96,502

ENVIRONMENTAL BIOLOGY

ALABAMA

UNIVERSITY OF ALABAMA

HAYNES, ROBERT R; *SYSTEMATICS OF POTAMOGETON (POTAMOGETONACEAE) (DEB-8021387)*; 12 MONTHS $31,475

HAYNES, ROBERT R; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8111024)*; 12 MONTHS $5,540

ALASKA

UNIVERSITY OF ALASKA FAIRBANKS CAMPUS

FOX, JOHN F; *PLANT/HERBIVORE INTERACTION AND DEFENSES IN THE BOREAL FOREST (DEB-7823919 A02)*; 12 MONTHS $52,300

FLANAGAN, PATRICK W; *CLIMATIC AND ECOLOGICAL EFFECTS OF A LARGE LAKE (DEB-7824365 A01)*; $9,234

CHAPIN, F STUART; *MOBILE CARBON POOLS IN ARCTIC TUNDRA PLANTS (DEB-7905842 A02)*; 12 MONTHS $72,924

GUTHRIE, R DALE; *ANALYSIS OF A FROZEN PLEISTOCENE BISON MUMMY FROM ALASKA (DEB-8008576)*; 12 MONTHS $25,000

ALLISON, CAROL W; *TAXONOMY AND EVOLUTIONARY IMPLICATIONS OF EARLY CAMBRIAN FOSSIL CHRYSOPHYTES (DEB-8109672*)*; 24 MONTHS $22,909

ARIZONA

ARIZONA STATE UNIVERSITY

RUTOWSKI, RONALD L; *REPRODUCTIVE BEHAVIOR OF TWO AGRICULTURAL PEST SPECIES OF PIERID BUTTERFLIES (BNS-7811211 A01*)*; 24 MONTHS $32,500

SCHMIDT, JEAN M; *SYSTEMATICS, ECOLOGY, AND MORPHOGENESIS OF TWO AQUATIC BACTERIA (DEB-7822281 A02)*; 12 MONTHS $20,953

ARONSON, JEROME M; *SYSTEMATICS OF AQUATIC FUNGI: A BIOCHEMICAL APPROACH (DEB-7824649 A02)*; 12 MONTHS $16,429

NASH, THOMAS H; *ECOLOGY OF COASTAL LICHENS IN SOUTHERN CALIFORNIA (DEB-7921953 A01)*; 12 MONTHS $40,444

FISHER, STUART G; *RECOVERY PROCESSES OF DESERT STREAMS (DEB-8004145 A01)*; 12 MONTHS $62,960

WALSBERG, GLENN E; *THERMAL ECOLOGY OF THE PHAINOPEPLA (DEB-8004266 A01)*; 12 MONTHS $22,400

SZAREK, STANLEY R; *ECOPHYSIOLOGICAL BASIS FOR HABITAT SELECTION OF DESERT EPHEMERALS (DEB-8023661)*; 12 MONTHS $27,475

COLLINS, JAMES P; *EVOLUTION OF MORPHOLOGICAL VARIATION (DEB-8109380)*; 12 MONTHS $29,996

MUSEUM OF NORTHERN ARIZONA

WHITHAM, THOMAS G; *HOST VARIATION AND HOST SELECTION IN A COEVOLVED PLANT-PARASITE SYSTEM (DEB-8005602 A01)*; 12 MONTHS $42,287

NORTHERN ARIZONA UNIVERSITY

PRICE, PETER W; *INTERACTIONS AMONG THREE TROPHIC LEVELS (DEB-8021754)*; 12 MONTHS $40,765

UNIVERSITY OF ARIZONA

HOSHAW, ROBERT W; *SYSTEMATICS OF THE GREEN ALGAL FAMILY ZYGNEMATACEAE (DEB-7910502 A01)*; $9,678

HEED, WILLIAM B, AND KIRCHER, HENRY W; *ECOLOGY, GENETICS AND NUTRITION OF DROSOPHILA IN THE SONORAN DESERT (DEB-7912924 A02)*; 12 MONTHS $63,977

BROWN, JAMES H; *COLLABORATIVE RESEARCH ON AN EXPERIMENTAL ANALYSIS OF GRANIVORY IN A DESERT ECOSYSTEM (DEB-8021535)*; 12 MONTHS $69,511

VAN DEVENDER, THOMAS R; *RECONSTRUCTION OF LATE PLEISTOCENE AND HOLOCENE VEGETATION AND CLIMATE IN THE CHIHUAHUAN DESERT (DEB-8022773)*; 24 MONTHS $54,996

ROSENZWEIG, MICHAEL L; *EXPLOITIVE COMPETITION, INTERFERENCE COMPETITION AND OPTIMAL FORAGING (DEB-8103487)*; 12 MONTHS $16,809

O'LEARY, JAMES W; *STOMATAL BEHAVIOR IN AMPHISTOMATOUS LEAVES (DEB-8110202)*; 14 MONTHS $33,000

ARKANSAS

UNIVERSITY OF ARKANSAS FAYETTEVILLE

SMITH, EDWIN B; *COLLABORATIVE RESEARCH ON A MONOGRAPHIC STUDY OF THE GENUS COREOPSIS (COMPOSITAE) (DEB-8011712 A01)*; 12 MONTHS $25,644

GRACE, JAMES B; *EXPERIMENTAL STUDIES OF COMPETITIVE DISPLACEMENT BETWEEN TWO HERBACEOUS, PERENNIAL PLANT SPECIES, TYPHA LATIFOLIA AND TYPHA ANGUSTIFOLIA (DEB-8110469)*; 24 MONTHS $63,022

CALIFORNIA

AMERICAN SOCIETY OF ZOOLOGISTS

ENDLER, JOHN A; *SYMPOSIUM ON ALTERNATIVE HYPOTHESES IN BIOGEOGRAPHY, SEATTLE, DEC. 27-30, 1980 (DEB-8023918)*; 12 MONTHS $8,564

BOTANICAL SOCIETY OF AMERICA

SOUTHWORTH, DARLENE; *SYMPOSIUM: BIOLOGY OF POLLEN, AUGUST 16-22, 1981, BLOOMINGTON, INDIANA (PCM-8108515*)*; 6 MONTHS $1,000

CALIFORNIA ACADEMY OF SCIENCES

LEE, WELTON L; *CURATION AND IMPROVEMENT OF SYSTEMATIC COLLECTIONS (DEB-7908522 A02)*; 12 MONTHS $52,165

BREEDLOVE, DENNIS E, AND ALMEDA, FRANK; *SUPPORT FOR SYSTEMATIC COLLECTIONS (DEB-7927070 A01)*; 12 MONTHS $47,495

IWAMOTO, TOMIO, AND ESCHMEYER, WILLIAM N; *THE COLLECTION OF FISHES AT THE CALIFORNIA ACADEMY OF SCIENCES (DEB-8013013 A01)*; 12 MONTHS $55,814

LEVITON, ALAN E; *SUPPORT FOR THE SYSTEMATIC COLLECTIONS OF THE DEPARTMENT OF HERPETOLOGY (DEB-8014250 A01)*; 12 MONTHS $54,963

KAVANAUGH, DAVID H; *SUPPORT FOR THE SYSTEMATIC COLLECTIONS OF THE DEPARTMENT OF ENTOMOLOGY (DEB-8015518 A01)*; 12 MONTHS $65,000

LEVITON, ALAN E; *EVALUATION OF COMPUTER DATA BANKING FOR SYSTEMATIC COLLECTIONS IN HERPETOLOGY AND ICHTHYOLOGY (DEB-8108959)*; 12 MONTHS $22,646

CALIFORNIA INSTITUTE OF TECHNOLOGY

LEWIS, EDWARD B; *SUPPORT OF THE COLLECTION OF MUTANT TYPES OF DROSOPHILA MELANOGASTER (DEB-8021760)*; 12 MONTHS $75,000

CALIFORNIA POLYTECHNIC ST UNIV,SAN LUIS OBISPO

KEIL, DAVID J; *SYSTEMATICS OF PECTIS (COMPOSITAE: TAGETEAE) (DEB-8104683)*; 36 MONTHS $60,000

CALIFORNIA STATE POLYTECHNIC UNIV, POMONA

BASKIN, JONATHAN N; *CURATION OF FISHES OF THE ORINOCO RIVER, VENEZUELA (DEB-8022343)*; 12 MONTHS $19,995

CALIFORNIA STATE UNIVERSITY, CHICO

KISTNER, DAVID H; *A SPECIES REVISION OF THE ALEOCHARINAE (DEB-7905088 A02)*; 12 MONTHS $20,588

CALIFORNIA STATE UNIVERSITY, LONG BEACH

LOOMIS, RICHARD B; *SYSTEMATICS OF EUTROMBICULA (DEB-7925107)*; 12 MONTHS $25,000

CHILDREN'S HOSPITAL AND HEALTH CENTER

MASCARELLO, JAMES T; *HIGH RESOLUTION CHROMOSOME STUDIES OF PHYLOGENETIC RELATIONSHIPS IN GEOMYOID RODENTS (DEB-8020990)*; 24 MONTHS $62,705

CLAREMONT GRADUATE SCHOOL

CARLQUIST, SHERWIN; *WOOD ANATOMY OF TUBIFLOROUS DICOTYLEDONOUS FAMILIES (DEB-8109910)*; 36 MONTHS $59,510

SAN DIEGO STATE UNIVERSITY

HURLBERT, STUART H; *AQUATIC BIOTA OF LATIN AMERICA (DEB-7823629 A02*)*; 12 MONTHS $18,279

ZEDLER, PAUL H; *POPULATION ECOLOGY OF A CLOSED-CONE CONIFER (DEB-7913424 A03)*; 12 MONTHS $39,080

MILLER, PHILIP C; *MECHANISMS CONTROLLING RESOURCE USE, COMMUNITY ORGANIZATION, AND SUCCESSION IN FIRE DOMINATED CHAPARRAL ECOSYSTEMS (DEB-8025977)*; 12 MONTHS $237,063

ZEDLER, PAUL H; *SYMPOSIUM OF THE DYNAMICS AND MANAGEMENT OF MEDITERRANEANTYPE ECOSYSTEMS; SAN DIEGO, CALIFORNIA; JUNE 1981 (DEB-8102767)*; 9 MONTHS $15,000

STANFORD UNIVERSITY

MOONEY, HAROLD A; *COLLABORATIVE STUDIES ON PHOTOSYNTHETIC ADAPTATION OF HIGHER PLANTS (DEB-7810599 A03)*; 12 MONTHS $60,005

EHRLICH, PAUL R; *POPULATION BIOLOGY OF EUPHYDRYAS BUTTERFLIES (DEB-7822413 A02)*; 12 MONTHS $56,000

ROUGHGARDEN, JONATHAN; *COEVOLUTION IN SIMPLE COMPETITION COMMUNITIES (DEB-7922124 A01)*; 12 MONTHS $45,000

KARLIN, SAMUEL; *TOPICS IN ANALYSIS, TOTAL POSITIVITY AND RELATED MATHEMATICAL MODELS IN BIOLOGY (MCS-7924310 A01*)*; 12 MONTHS $20,672

WATT, WARD B; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8008575)*; 15 MONTHS $3,500

WATT, WARD B; *EVOLUTIONARY ADAPTATION AT SPECIFIC GENE LOCI (DEB-8011139 A01)*; 12 MONTHS $62,700

EHRLICH, PAUL R; *MONTANE BUTTERFLY FAUNAS AS A MODEL SYSTEM FOR EVALUATING ENVIRONMENTAL IMPACTS AND DESIGNING RESERVES (DEB-8022413)*; 36 MONTHS $149,998

MOONEY, HAROLD A; *LIMITATIONS TO ENERGY CAPTURE IN NATURAL ECOSYSTEMS (DEB-8102769)*; 12 MONTHS $180,000

WALBOT, VIRGINIA; *EVOLUTION OF DNA SEQUENCES IN PLANTS (DEB-8115322*)*; 3 MONTHS $21,968

WALBOT, VIRGINIA; *EVOLUTION OF DNA SEQUENCES IN PLANTS (DEB-8115322 A01)*; 12 MONTHS $48,101

UNIVERSITY OF CALIFORNIA, BERKELEY

WAKE, DAVID B; *ADAPTIVE RADIATION OF PLETHODONTID SALAMANDERS IN THE NEW WORLD TROPICS AND WESTERN NORTH AMERICA (DEB-7803008 A03)*; 12 MONTHS $62,500

SOUSA, WAYNE P; *SYSTEMATICS AND ECOLOGY OF ACRIDIDAE OF NEOTROPICAL RAIN FORESTS (DEB-7823399 A01)*; 6 MONTHS $7,140

PAPENFUSS, GEORGE F; *A HISTORY, CATALOGUE AND BIBLIOGRAPHY OF THE BENTHIC ALGAE OF THE INDIAN OCEAN (DEB-7910130 A01)*; $5,109

MCCULLOUGH, DALE R; *DEER POPULATION -- VEGETATION INTERACTIONS ON THE GEORGE RESERVE (DEB-7911534 A01)*; 12 MONTHS $31,450

JOHNSON, NED K; *GENETIC-PHENETIC CORRELATES OF AVIAN DIVERSITY (DEB-7920694 A01)*; 12 MONTHS $32,000

JOHNSON, NED K; *OPERATIONAL SUPPORT FOR THE MUSEUM OF VERTEBRATE ZOOLOGY (DEB-7924036 A01)*; 12 MONTHS $57,001

WAKE, MARVALEE H; *COMPARATIVE MORPHOLOGY AND SYSTEMATICS OF CAECILIANS (DEB-8005905 A01)*; 12 MONTHS $35,000

COLLINS, O'NEIL R; *MYXOMYCETE BIOSYSTEMATICS (DEB-8005999 A01)*; 12 MONTHS $68,010

PATTON, JAMES L; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8010616)*; 24 MONTHS $5,500

WAKE, DAVID B; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8014101)*; 24 MONTHS $7,517

LINSLEY, E G; *A MONOGRAPH OF THE CERAMBYCIDAE OF NORTH AMERICA (DEB-8015523)*; 24 MONTHS $31,935

COBB, FIELDS W; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8019916)*; 24 MONTHS $5,380

DUNCAN, THOMAS O; *SYSTEMATIC AND EVOLUTIONARY STUDIES OF RANUNCULUS AND RELATED GENERA (DEB-8020816)*; 12 MONTHS $33,592

HICKMAN, CAROLE S; *SYSTEMATICS OF TROCHACEA (DEB-8020992)*; 12 MONTHS $26,019

GREENE, HARRY W; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8025289)*; 24 MONTHS $6,500

PITELKA, FRANK A; *ECOLOGY AND EVOLUTION OF SOCIAL BEHAVIOR (DEB-8109128)*; 12 MONTHS $35,000

PATTON, JAMES L; *SYSTEMATICS OF THOMOMYS (DEB-8109677)*; 12 MONTHS $49,435

PATTON, JAMES L, AND LIDICKER, WILLIAM Z; *SUPPORT FOR THE EDP (ELECTRONIC DATA PROCESSING) PROGRAM OF THE MAMMAL COLLECTION OF THE MUSEUM OF VERTEBRATE ZOOLOGY, UNIVERSITY OF CALIFORNIA, BERKELEY (DEB-8114923)*; 12 MONTHS $19,232

UNIVERSITY OF CALIFORNIA, DAVIS

ALLARD, ROBERT W; *GENETICS OF PLANT POPULATIONS (DEB-7820046 A03)*; $52,000

JAIN, SUBODH K; *INTERSPECIFIC VARIATION AND EVOLUTION OF BREEDING SYSTEMS IN LIMNANTHES (DEB-7823522 A02)*; 12 MONTHS $36,000

MENKE, JOHN W, JONES, MILTON B, AND WILLIAMS, WILLIAM A; *MOISTURE AND SULFUR IN THE CALIFORNIA ANNUAL GRASSLAND ECOSYSTEM (DEB-7823641 A02)*; 12 MONTHS $25,235

RICK, CHARLES M; *MAINTENANCE OF TOMATO GENETIC CHROMOSOMAL, AND SPECIES STOCKS (DEB-7909546 A04)*; 12 MONTHS $38,168

GOLDMAN, CHARLES R; *PREDATION AND TROPHIC RELATIONSHIPS IN LAKE TAHOE (DEB-7916221 A01)*; 12 MONTHS $127,315

PEARCY, ROBERT W; *PHOTOSYNTHETIC ADAPTATION IN THE C4 HAWAIIAN EUPHORBIAS (DEB-7921896 A01)*; 12 MONTHS $41,000

RICHERSON, PETER J; *THE LIMNOLOGY OF LAKE TITICACA (DEB-7921933 A01)*; 12 MONTHS $133,120

SNOW, SIDNEY R; *EVOLUTION OF A DUPLICATE GENE IN DIPLOID SPECIES OF CLARKIA (DEB-7922196 A01)*; 12 MONTHS $43,176

LAVOIPIERRE, MICHEL M; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8007725)*; 18 MONTHS $6,500

AYALA, FRANCISCO J; *HOMOZYGOUS FITNESS OF CHROMOSOME SEGMENTS IN DROSOPHILA MELANOGASTER (DEB-8016397)*; 24 MONTHS $65,400

GOLDMAN, CHARLES R; *A COMPARATIVE STUDY OF THE NITROGEN METABOLISM OF PHYTOPLANKTON AND PERIPHYTON COMMUNITIES IN OLIGOTROPHIC LAKES (DEB-8019918)*; 12 MONTHS $125,212

WEATHERS, WESLEY W; *AVIAN ECOLOGICAL ENERGETICS (DEB-8022765)*; 12 MONTHS $47,500

AXELROD, DANIEL I; *PALEOECOLOGY OF THE LATE OLIGOCENE CREEDE FLORA, COLORADO (DEB-8025525)*; 24 MONTHS $45,000

BLOOM, ARNOLD J; *THE EFFICIENCY OF NITROGEN ACQUISITION IN HORDEUM (DEB-8104681*)*; 12 MONTHS $92,250

STAMPS, JUDY A, AND WALKER, JANETTE M; *DOCTORAL DISSERTATION RESEARCH IN PSYCHOBIOLOGY (BNS-8105366*)*; 12 MONTHS $2,164
PHAFF, HERMAN J; *A COLLABORATIVE RESEARCH ON THE YEAST FLORA ASSOCIATED WITH OPUNTIA CACTI (DEB-8108898)*; 12 MONTHS $11,000

UNIVERSITY OF CALIFORNIA, IRVINE

MAC MILLEN, RICHARD E; *WATER AND ENERGY REGULATION IN HETEROMYID RODENTS (DEB-7923808 A01)*; 12 MONTHS $46,773
RODRIGUEZ, ELOY; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8007557)*; 24 MONTHS $4,000
CARPENTER, F LYNN; *ENERGETIC AND RESOURCE CONSTRAINTS ON OPTIMAL TERRITORY SIZE (DEB-8022575)*; 12 MONTHS $26,799

UNIVERSITY OF CALIFORNIA, LOS ANGELES

SCHOPF, J WILLIAM; *PRECAMBRIAN PALEOBIOLOGY (DEB-7921777 A01*)*; 12 MONTHS $33,524
LOEBLICH, HELEN T, AND LOEBLICH, ALFRED R; *SUPRAGENERIC RECLASSIFICATION OF THE FORAMINIFERIDA (PROTOZOA) (DEB-8008065*)*; 12 MONTHS $39,984
BARTHOLOMEW, GEORGE A; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8023917)*; 18 MONTHS $4,333
TAYLOR, CHARLES E; *ECOPHYSIOLOGY OF CACTI: RADIATIVE AND THERMAL ASPECTS (DEB-8026130)*; 12 MONTHS $38,500
NOBEL, PARK S; *ECOPHYSIOLOGY OF CACTI: RADIATIVE AND THERMAL ASPECTS (DEB-8100829)*; 12 MONTHS $36,167
BARTHOLOMEW, GEORGE A; *ECOLOGICAL PHYSIOLOGY AND BEHAVIOR (DEB-8103513)*; 12 MONTHS $67,000
GIBSON, ARTHUR C; *PHYLOGENY OF MEXICAN PACHYCEREEAE (CACTACEAE) (DEB-8108891)*; 24 MONTHS $21,665
NOBEL, PARK S, AND GIBSON, ARTHUR S; *COMPARATIVE WATER RELATIONS AND ANATOMY OF FERNS (DEB-8109281)*; 24 MONTHS $77,000

UNIVERSITY OF CALIFORNIA, RIVERSIDE

GORDH, GORDON; *SYSTEMATIC REVISION OF NEARCTIC ENCYRTIDAE (DEB-7805397 A02)*; 12 MONTHS $15,480
FRECKMAN, DIANA W; *THE ROLE OF NEMATODES IN LITTER DECOMPOSITION IN CHIHUAHUAN DESERT ECOSYSTEMS (DEB-7825445 A01)*; 24 MONTHS $69,859
PINTO, JOHN D; *SYSTEMATICS OF NORTH AMERICAN EPICAUTA (MELOIDAE: COLEOPTERA) (DEB-7915307 A01)*; 12 MONTHS $23,290
JARRELL, WESLEY M; *NITROGEN FIXATION IN LEGUME-DOMINATED DESERT ECOSYSTEMS (DEB-7921971 A01)*; 12 MONTHS $223,919
FRENCH, ALAN R; *THE ENERGETICS AND TIMING OF MAMMALIAN HIBERNATION (DEB-8003513 A01)*; 12 MONTHS $29,798
PRICE, MARY V; *RESOURCE PARTITIONING BY COEXISTING DESERT RODENT SPECIES (DEB-8022164)*; 12 MONTHS $41,295
WASER, NICKOLAS M; *PLANT-POLLINATOR INTERACTION: OPTIMAL AND ACTUAL OUTCROSSING IN MONTANE WILDFLOWERS (DEB-8102774)*; 24 MONTHS $69,960
SNYDER, LEE R; *HEMOGLOBIN POLYMORPHISMS IN PEROMYSCUS MANICULATUS (DEB-8104699)*; 24 MONTHS $138,000
RUIBAL, RODOLFO, AND SIMOVICH, MARIE; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8108894)*; 24 MONTHS $2,876

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

HESSLER, ROBERT R; *TAXONOMY, PHYLOGENY, AND BIOGEOGRAPHY OF EURYCOPIDAE (DEB-7724614 A01)*; 22 MONTHS $75,597
NEWMAN, WILLIAM A; *SYSTEMATICS OF CIRRIPEDIA (DEB-7815052 A02)*; 12 MONTHS $27,577
NEWMAN, WILLIAM A; *SYSTEMATICS OF CIRRIPEDIA (DEB-7815052 A03)*; $6,878

UNIVERSITY OF CALIFORNIA, SAN DIEGO

VEHRENCAMP, SANDRA L; *PARENTAL INVESTMENT STRATEGIES AND COMMUNAL NESTING IN ANIS (DEB-7825330 A01)*; 24 MONTHS $70,000
GILPIN, MICHAEL; *STUDIES IN DIFFUSE MULTISPECIES COMPETITION (DEB-7905085 A02)*; 12 MONTHS $44,500
BRADBURY, JACK W; *EVOLUTION OF COOPERATIVE BEHAVIOR (DEB-8001165 A01*)*; 12 MONTHS $20,567

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

MURDOCH, WILLIAM W; *THE DYNAMICAL STRUCTURE OF ECOLOGICAL COMMUNITIES (DEB-7922131 A01)*; 12 MONTHS $70,037
BOTKIN, DANIEL B; *CLIMATE VS BIOTIC FACTORS IN THE HISTORY OF FOREST ECOSYSTEMS (DEB-8012159 A01)*; 12 MONTHS $90,156
MOSELEY, MAYNARD F; *COLLABORATIVE RESEARCH ON THE MORPHOLOGY OF THE NYMPHAEACEAE SENSU LATO (DEB-8101092)*; 24 MONTHS $51,965
OFFEN, HENRY W; *FACILITY AND SERVICE IMPROVEMENTS ON SANTA CRUZ ISLAND (DEB-8105438)*; 24 MONTHS $100,000
WARNER, ROBERT; *BEHAVIORAL AND POPULATION ECOLOGY OF CORAL REEF FISHES (DEB-8109133)*; 12 MONTHS $45,000

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

LANGENHEIM, JEAN H; *COMPARATIVE SYSTEMATIC AND CHEMICAL STUDIES OF THE AMBER PRODUCING GENERA HYMENAEA AND COPAIFERA (DEB-7810445 A03)*; 12 MONTHS $50,717
NORRIS, KENNETH S; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8017591)*; 12 MONTHS $4,750
FOX, LAUREL R; *FOOD QUALITY AND NATURAL ENEMIES MODIFYING HERBIVORE LEVELS ON EUCALYPTUS (DEB-8022574)*; 12 MONTHS $41,955

UNIVERSITY OF SOUTHERN CALIFORNIA

NAFPAKTITIS, BASIL G; *SYSTEMATICS AND DISTRIBUTION OF LANTERNFISHES (FAMILY MYCTOPHIDAE) IN THE PACIFIC OCEAN (DEB-8013784)*; 38 MONTHS $51,913
BRUSCA, RICHARD C; *MONOGRAPHS OF MARINE ISOPODA OF THE TROPICAL EASTERN PACIFIC (DEB-8017835)*; 24 MONTHS $56,311

COLORADO

COLORADO STATE UNIVERSITY

BAKER, MYRON C; *VOCAL COMMUNICATION AND GENETIC POPULATION STRUCTURE (DEB-7822657 A02)*; 12 MONTHS $37,386
WOODMANSEE, ROBERT G; *ADDITIONS, LOSSES AND TRANSFORMATIONS OF NITROGEN IN GRASSLAND ECOSYSTEMS (DEB-7906009 A02)*; 12 MONTHS $247,986
PACKARD, GARY C; *MORPHOLOGY, PHYSIOLOGY, AND EVOLUTION OF THE CLEIDOIC EGG (DEB-7911546 A01)*; 12 MONTHS $32,951
ELLIS, JAMES E, AND SWIFT, DAVID M; *THE ECOLOGY OF SUBSISTENCE PASTORALISM (DEB-8004182 A01*)*; 12 MONTHS $92,395
COLEMAN, DAVID C; *SOIL, ROOT, AND MICROORGANISM INTERACTIONS AFFECTING NUTRIENT TRANSFORMATIONS IN SEMI-ARID GRASSLANDS (DEB-8004193 A01)*; 12 MONTHS $333,870
DETLING, JAMES K; *PLANT-ANIMAL INTERACTIONS: THE ROLE OF ABOVE- AND BELOWGROUND HERBIVORES IN NORTH AMERICAN GRASSLAND ECOSYSTEMS (DEB-8022380)*; 12 MONTHS $189,394
COLE, C VERNON; *ORGANIC MATTER AND NUTRIENT CYCLING IN SEMIARID AGROECOSYSTEMS (DEB-8105281*)*; 12 MONTHS $376,853

RESEARCH INSTITUTE OF COLORADO (RIC)

FRENCH, NORMAN R; *CONFERENCE ON SOVIET BIOLOGICAL LITERATURE; APRIL 1981; WASHINGTON, D.C. (DEB-8108011)*; 4 MONTHS $8,799

ROCKY MOUNTAIN BIOLOGICAL LABORATORY

PLEASANTS, JOHN M; *FORAGING BY BUMBLEBEES: A TEST OF THE MARGINAL VALUE THEOREM (DEB-8111027)*; 24 MONTHS $35,640
BRUSSARD, PETER F; *FACILITY SUPPORT: NEW LABORATORY BUILDING (DEB-8111306)*; 24 MONTHS $300,500

UNIVERSITY OF COLORADO AT BOULDER

PICKETT-HEAPS, JEREMY D; *CELL DIVISION, MORPHOGENESIS AND PHYLOGENY IN DIATOMS AND GREEN ALGAE (DEB-7922300 A01)*; 12 MONTHS $50,000
BEKOFF, MARC; *SOCIAL ECOLOGY OF FREE-RANGING COYOTES (BNS-7923463 A01*)*; 12 MONTHS $17,615
LEWIS, WILLIAM M; *ECOSYSTEM ANALYSIS OF LAKE VALENCIA, VENEZUELA (DEB-8003883 A01)*; 12 MONTHS $175,235
LINHART, YAN B; *COLLABORATIVE RESEARCH ON SECONDARY SUCCESSION IN THE TROPICS (DEB-8011023)*; 12 MONTHS $38,265
WEBBER, PATRICK J; *ECOLOGICAL PATTERNS AND PROCESSES IN ALPINE ECOSYSTEMS OF COLORADO (DEB-8012095 A01)*; 15 MONTHS $320,867
BREED, MICHAEL D; *NINTH CONGRESS OF THE INTERNATIONAL UNION FOR THE STUDY OF SOCIAL INSECTS;BOULDER, COLORADO; AUG. 9-13, 1982 (DEB-8108893*)*; 18 MONTHS $10,450
ARMSTRONG, DAVID M; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8109681)*; 12 MONTHS $5,350

CONNECTICUT

UNIVERSITY OF CONNECTICUT

BRUSH, ALAN H; *A MOLECULAR BASIS FOR AVIAN MORPHOLOGY: EPIDERMAL KERATIN STRUCTURES (DEB-8016544)*; 12 MONTHS $45,000
SCHULTZ, R JACK; *CLONAL COMPETITION AND ADAPTATION (DEB-8021265)*; 12 MONTHS $34,000
DAMMAN, ANTONI W; *BIOGEOCHEMICAL STUDIES IN OMBROTROPHIC BOGS OF THE SOUTHERN HEMISPHERE (DEB-8109913)*; 24 MONTHS $73,546

YALE UNIVERSITY-SCHOOL OF MEDICINE

BACHMANN, BARBARA J; *MAINTENANCE OF ESCHERICHIA COLI K-12 STOCK CULTURE COLLECTION (DEB-7920521 A01)*; 12 MONTHS $117,162

YALE UNIVERSITY

TIFFNEY, BRUCE H; *SYSTEMATICS OF FOSSIL FRUITS AND SEEDS FROM BRANDON, VERMONT (DEB-7905082 A02)*; 12 MONTHS $19,998
MCKAYE, KENNETH R; *COMMUNITY AND BEHAVIORAL ECOLOGY OF CICHLID FISHES (DEB-7912358 A02)*; 12 MONTHS $50,654
MCKAYE, KENNETH R; *COMMUNITY AND BEHAVIORAL ECOLOGY OF CICHLID FISHES (DEB-7912358 A03)*; $1,875
THOMSON, KEITH S; *SYSTEMATICS OF TRIASSIC AND EARLY JURASSIC SEMIONOTIDAE OF EASTERN NORTH AMERICA (DEB-7921746 A01*)*; 12 MONTHS $39,738
SIBLEY, CHARLES G; *A COMPARATIVE STUDY OF THE GENETIC MATERIAL (DNA) OF BIRDS (DEB-7926746)*; 12 MONTHS $76,000
HANDEL, STEVEN N; *POLLEN FLOW IN EXPERIMENTAL AND NATURAL PLANT POPULATIONS (DEB-8105934)*; 12 MONTHS $49,006
BORMANN, F HERBERT; *COLLABORATIVE RESEARCH ON HYDROLOGIC-NUTRIENT CYCLE INTERACTION IN A SMALL UNDISTURBED AND MAN-MANIPULATED ECOSYSTEM (DEB-8111551)*; 12 MONTHS $172,648

HARRISON, RICHARD G; *HYBRIDIZATION AND GENE EXCHANGE IN NORTH AMERICAN GRYLLUS (DEB-8111603)*; 12 MONTHS $46,000

DELAWARE

UNIVERSITY OF DELAWARE-COLLEGE OF MARINE STUDIES

KLEMAS, VYTAUTAS; *QUANTITATIVE ASSESSMENT OF EMERGENT BIOMASS AND SPECIES COMPOSITION IN TIDAL WETLANDS USING REMOTE SENSING (DEB-8017836)*; 12 MONTHS $39,612

UNIVERSITY OF DELAWARE

WOOD, THOMAS K; *EVOLUTION OF MEMBRACID LIFE HISTORIES (DEB-8021398)*; 12 MONTHS $28,700

CORNELL, HOWARD V; *DETERMINANTS OF THE RICHNESS-RANGE PATTERN (DEB-8022341)*; 12 MONTHS $20,033

WOOD, THOMAS K; *INSECT SPECIATION AND HOST PLANT INTERACTION (DEB-8023086*)*; 12 MONTHS $20,641

DISTRICT OF COLUMBIA

CARNEGIE INSTITUTION OF WASHINGTON

BJORKMAN, OLLE E, BERRY, JOSEPH A, AND MOONEY, HAROLD; *COLLABORATIVE STUDIES ON PHOTOSYNTHETIC ADAPTATION OF HIGHER PLANTS (DEB-7810724 A03)*; 12 MONTHS $13,000

GEORGE WASHINGTON UNIVERSITY

SEIFERT, RICHARD P; *THE STRUCTURE OF MOSQUITO DOMINATED HELICONIA INSECT COMMUNITIES (DEB-7906593 A01)*; $3,300

SIMBERLOFF, DANIEL S; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8108267)*; 24 MONTHS $4,500

HOWARD UNIVERSITY-COLLEGE OF MEDICINE

DOMNING, DARYL P; *TERTIARY SIRENIAN SYSTEMATICS AND PALEONTOLOGY IN THE WEST ATLANTIC AND CARIBBEAN (DEB-8020265*)*; 24 MONTHS $46,456

HOWARD UNIVERSITY

HUSSAIN, S T; *CENOZOIC MAMMALS AND BIOSTRATIGRAPHY OF PAKISTAN (DEB-8003601*)*; 24 MONTHS $70,783

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

KASPER, RAPHAEL; *PARTIAL SUPPORT OF THE INTERNATIONAL ENVIRONMENTAL PROGRAMS COMMITTEE (29T-7826469 A05*)*; 12 MONTHS $12,000

SMITHSONIAN INSTITUTION

SIRIVANAKARN, SUNTHORN; *A REVISION OF THE GENUS CULEX SUBGENUS MALANOCONION (DEB-8008616)*; 12 MONTHS $35,000

FLORIDA

FAIRCHILD TROPICAL GARDEN

NORSTOG, KNUT J; *COMPARATIVE STUDIES OF SPERMATOGENESIS IN SEVERAL CYCAD GENERA AND SPECIES (DEB-7904952 A01)*; $5,549

FISHER, JACK B; *STRUCTURAL STUDIES OF TROPICAL TREES (DEB-7914635 A01)*; 12 MONTHS $23,653

FLORIDA STATE UNIVERSITY

FRIEDMANN, E IMRE; *TAXONOMY OF UDOTEACEAE (DEB-7823388 A02)*; 12 MONTHS $39,059

ABELE, LAWRENCE G; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8018385)*; 24 MONTHS $4,936

ANDERSON, LORAN C; *SYSTEMATICS AND ANATOMY OF CHRYSOTHAMNUS AND RELATED ASTERACEAE (DEB-8021776)*; 36 MONTHS $42,400

TRAVIS, JOSEPH; *SOURCES AND CONSEQUENCES OF GROWTH RATE VARIATION IN LARVAL ANURANS (DEB-8102782)*; 24 MONTHS $59,000

MARIE SELBY BOTANICAL GARDENS

MADISON, MICHAEL; *CURATORIAL SUPPORT FOR THE HERBARIUM OF THE MARIE SELBY BOTANICAL GARDENS (DEB-8023318)*; 36 MONTHS $19,390

TALL TIMBERS RESEARCH INC

PLATT, WILLIAM J; *THE DYNAMICS OF FIRE-ADAPTED COMMUNITIES - LTREB (DEB-8012090 A01)*; 12 MONTHS $24,246

UNIVERSITY OF FLORIDA-FLORIDA STATE MUSEUM

WILLIAMS, NORRIS H; *POLLEN MORPHOLOGY AND SYSTEMATICS OF NEOTROPICAL GESNERIACEAE (DEB-8117253)*; 8 MONTHS $14,139

UNIVERSITY OF FLORIDA

LANCIANI, CARMINE A; *PARASITE-INDUCED EFFECTS ON HOST POPULATION PARAMETERS (DEB-7921642 A02)*; $7,870

BROCKMANN, H J; *THE EXAMINATION OF EVOLUTIONARILY STABLE STRATEGIES (DEB-8009334 A02)*; 12 MONTHS $32,500

FEINSINGER, PETER; *COLLABORATIVE RESEARCH ON SECONDARY SUCESSION IN THE TOPICS (DEB-8011008)*; 12 MONTHS $76,858

EWEL, JOHN J; *NATURAL SUCCESSION AS A MODEL FOR THE DESIGN OF NEW TROPICAL AGROECOSYSTEMS (DEB-8011136 A01)*; 12 MONTHS $140,851

CRUMP, MARTHA L; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8019502)*; 10 MONTHS $3,640

KIMBROUGH, JAMES W, AND SAMUELSON, DON A; *PHYLOGENETIC RELATIONSHIPS OF OPERCULATE DISCOMYCETES (DEB-8019728)*; 12 MONTHS $36,003

FAIRCHILD, G B, AND WILKERSON, RICHARD C; *SYSTEMATICS OF NEOTROPICAL TABANIDAE (DEB-8020081)*; 12 MONTHS $26,000

WEBB, S DAVID, AND MAC FADDEN, BRUCE J; *CURATORIAL IMPROVEMENT IN THE FOSSIL VERTEBRATE COLLECTIONS OF THE FLORIDA STATE MUSEUM (DEB-8022779)*; 12 MONTHS $73,199

MCNAB, BRIAN K; *METABOLISM AND TEMPERATURE REGULATION IN SMALL MAMMALS (DEB-8104695)*; 12 MONTHS $24,000

GHOLZ, HENRY L, EWEL, KATHERINE C, AND FISHER, RICHARD F; *THE ROLE OF ROOT PRODUCTION AND TURNOVER IN THE CYCLING OF NITROGEN AND PHOSPHORUS IN SLASH PINE PLANTATION ECOSYSTEMS (DEB-8105718)*; 12 MONTHS $125,672

UNIVERSITY OF MIAMI-SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

FELL, JACK W; *SYSTEMATICS AND LIFE HISTORIES OF BASIDIOMYCETOUS YEASTS (DEB-7912190 A01)*; 12 MONTHS $56,757

VOSS, NANCY A; *MONOGRAPHIC REVISION OF THE CEPHALOPODS OF THE FAMILY CRANCHIIDAE (DEB-8105193)*; 12 MONTHS $31,959

UNIVERSITY OF MIAMI

LEE, JULIAN C; *SYSTEMATICS, VARIATION, AND ADAPTIVE MORPHOLOGY OF THE ANOLIS SAGREI COMPLEX (DEB-8103485)*; 24 MONTHS $44,088

FLEMING, THEODORE H; *ECOLOGICAL INTERACTIONS BETWEEN TROPICAL FRUGIVORES AND THEIR FOOD PLANTS (DEB-8104685)*; 12 MONTHS $44,821

GEORGIA

GEORGIA INSTITUTE OF TECHNOLGY MAIN CAMPUS

BENKE, ARTHUR C; *THE BIOLOGICAL BASIS OF PRODUCTION IN SUBTROPICAL BLACKWATER RIVERS (DEB-8104427)*; 12 MONTHS $216,051

GEORGIA SOUTHERN COLLEGE

BISHOP, GALE A; *SYSTEMATICS, GEOLOGY AND PALEOGEOGRAPHY OF CRETACEOUS DECAPODA (DEB-8011570*)*; 24 MONTHS $47,000

GEORGIA STATE UNIVERSITY

MEYER, SALLY A; *MOLECULAR APPROACHES TO YEAST SYSTEMATICS (DEB-7823630 A02)*; 12 MONTHS $29,364

UNIVERSITY OF GEORGIA

GIBBONS, J W; *THE INFLUENCE OF ENVIRONMENTAL FACTORS OF LIFE HISTORY CHARACTERISTICS (DEB-7904758 A01)*; 12 MONTHS $30,037

JONES, SAMUEL B; *SYSTEMATICS OF VERNONIEAE (COMPOSITAE) (DEB-7909831 A02)*; $9,629

ANDERSON, WYATT W; *ANALYSIS OF SELECTION ON DROSOPHILA PSEUDOOBSCURA KARYOTYPES (DEB-7918493 A01)*; 12 MONTHS $55,001

PATTEN, BERNARD C; *INTEGRATED STUDIES OF THE OKEFENOKEE SWAMP ECOSYSTEM (DEB-7922633 A01)*; 12 MONTHS $389,758

WYATT, ROBERT; *THE EVOLUTION OF AUTOGAMY IN TWO SPECIES OF ARENARIA (DEB-8001986*)*; 24 MONTHS $64,248

ODUM, EUGENE P; *ANALYSIS OF AGRILCULTURAL SYSTEMS: NUTRIENT CYCLING IN CONVENTIONAL TILLAGE, NO-TILLAGE AND OLD-FIELD SYSTEMS (DEB-8007543 A02)*; $1,875

CROSSLEY, D A; *COMPARATIVE STUDIES OF FORESTED WATERSHEDS AT COWEETA HYDROLOGIC LABORATORY, NORTH CAROLINA (DEB-8012093 A01)*; 15 MONTHS $349,520

JORDAN, CARL F; *EFFECT OF CUTTING AND BURNING ON NUTRIENT DYNAMICS OF A TROPICAL RAIN FOREST (DEB-8012209 A02)*; 12 MONTHS $322,661

JONES, SAMUEL B; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8019736)*; 24 MONTHS $7,650

AVISE, JOHN C, AND LANSMAN, ROBERT A; *EVOLUTION OF MAMMALIAN MITOCHONDRIAL DNA (DEB-8022135)*; 24 MONTHS $84,000

WALLACE, JAMES B; *SPATIAL ORGANIZATION AS A RESPONSE TO CURRENT VELOCITY (DEB-8105517)*; 12 MONTHS $30,000

HAINES, BRUCE L; *SOURCES OF ACID RAIN IN THE AMAZON BASIN (DEB-8104700)*; 24 MONTHS $39,564

GIANNASI, DAVID E; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8105474)*; 24 MONTHS $5,210

FULLER, MELVIN S; *SYSTEMATIC VALUE OF THE DISCHARGE APPARATUS IN THE CHYTRIDIALES (DEB-8109815)*; 12 MONTHS $35,142

HAWAII

BERNICE P BISHOP MUSEUM

HOWARTH, FRANCIS G; *ECOLOGY AND EVOLUTION OF CAVE ORGANISMS (DEB-7904760 A02)*; 12 MONTHS $27,334

RADOVSKY, FRANK J; *CURATORIAL AND FACILITIES SUPPORT OF THE ENTOMOLOGICAL COLLECTIONS (DEB-8008987 A01)*; 12 MONTHS $65,000

GRESSITT, J LINSLEY; *BIOGEOGRAPHY AND EVOLUTION OF NEW GUINEA-SOLOMONS AREA PHYTOPHAGOUS COLEOPTERA (DEB-8016438)*; 12 MONTHS $23,855

DEVANEY, DENNIS M; *CURATORIAL AND FACILITIES SUPPORT FOR THE INVERTEBRATE ZOOLOGY COLLECTION AT BERNICE P. BISHOP MUSEUM (DEB-8020915)*; 36 MONTHS $176,435

SOHMER, SEYMOUR H; *CURATORIAL AND FACILITIES SUPPORT FOR THE HERBARIUM PACIFICUM (DEB-8108247)*; 12 MONTHS $247,046

SOHMER, SEYMOUR H; *THE GENUS PSYCHOTRIA (RUBIACEAE) IN PAPUASIA (DEB-8108258)*; 24 MONTHS $51,629

UNIVERSITY OF HAWAII-MANOA

MUELLER-DOMBOIS, DIETER; *SPATIAL VARIATION AND SUCCESSION IN TROPICAL ISLAND RAIN FORESTS (DEB-7910993 A02)*; 12 MONTHS $139,742

CARSON, HAMPTON L; *GENETIC PROCESSES LEADING TO THE ORIGIN OF SPECIES (DEB-7926692 A01)*; 12 MONTHS $55,000

HARDY, D ELMO; *A MONOGRAPH OF THE TEPHRITIDAE OF INDONESIA AND NEW GUINEA (DEB-8019307)*; 36 MONTHS $51,416

IDAHO

IDAHO STATE UNIVERSITY

MINSHALL, G W; *THE RIVER CONTINUUM (DEB-7811671 A02)*; 3 MONTHS $41,765

ILLINOIS

FIELD MUSEUM OF NATURAL HISTORY

SOLEM, G A; *PHYLOGENY AND BIOGEOGRAPHY OF HELICOID LAND SNAILS (DEB-7821444 A02)*; 12 MONTHS $23,000

MARSHALL, LARRY G; *PHYLOGENETIC RELATIONSHIPS OF THE MARSUPIALIA (DEB-7901976 A02)*; 12 MONTHS $27,300

FEUER, SYLVIA M; *POLLEN MORPHOLOGY AND EVOLUTION IN THE SANTALALES (DEB-7910293 A01)*; 24 MONTHS $62,700

TIMM, ROBERT M; *CARE AND USE OF THE SYSTEMATIC COLLECTION OF MAMMALS (DEB-7920660 A01)*; 12 MONTHS $55,545

BURGER, WILLIAM C; *CURATORIAL SUPPORT FOR THE JOHN G. SEARLE HERBARIUM (DEB-7925717 A01)*; 12 MONTHS $35,000

NITECKI, MATTHEW H; *FIELD MUSEUM SPRING SYSTEMATICS SYMPOSIA, CHICAGO, MAY 8-9, 1981 AND MAY 7-8, 1982 (DEB-8002019 A01)*; 24 MONTHS $9,356

KETHLEY, JOHN B; *SUPPORT FOR SYSTEMATIC COLLECTIONS OF INSECTS AND OTHER ARTHROPODS (DEB-8015675 A01)*; 12 MONTHS $50,000

FITZPATRICK, JOHN W; *SUPPORT FOR THE SYSTEMATIC COLLECTIONS IN ORNITHOLOGY (DEB-8021414)*; 12 MONTHS $54,756

BURGER, WILLIAM C; *FLORA OF COSTA RICA PROJECT (DEB-8103184)*; 12 MONTHS $28,074

NEVLING, LORIN I, AND NEE, MICHAEL; *FLORA OF VERACRUZ (DEB-8111544*)*; 12 MONTHS $41,554

ILLINOIS STATE MUSEUM

KING, JAMES E; *LATE QUATERNARY PALYNOLOGICAL STUDIES IN ILLINOIS (DEB-8108902)*; 24 MONTHS $32,046

ILLINOIS STATE UNIVERSITY

ANDERSON, ROGER C, AND LIBERTA, ANTHONY E; *INTERACTION OF PRAIRIE PLANT SPECIES AND VAM FUNGI ALONG A MOISTURE GRADIENT (DEB-8020987)*; 24 MONTHS $61,390

THOMPSON, CHARLES F; *CONTROL OF BROOD SIZE (DEB-8104687)*; 28 MONTHS $50,000

NORTHWESTERN UNIVERSITY-CHICAGO CAMPUS-MEDICAL SCHOOL

NADLER, CHARLES F; *COLLABORATIVE RESEARCH ON SYSTEMATICS OF HOLARCTIC MAMMALS (DEB-8007246 A01)*; 12 MONTHS $38,700

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE

MATTEN, LAWRENCE C; *FOSSIL PLANTS OF THE UPPER DEVONIAN-LOWER MISSISSIPPIAN COOMHOLA FORMATION (DEB-8108383)*; 36 MONTHS $59,078

UNIVERSITY OF CHICAGO

FEDER, MARTIN E, AND WASSERSUG, RICHARD J; *ADAPTATIONS FOR SWIMMING AND FEEDING ACTIVITY OF LARVAL ANURANS (DEB-7823896 A02)*; 12 MONTHS $44,000

LOMBARD, R E; *THE AUDITORY SYSTEM OF ANURA: STRUCTURE, ORIGIN & FUNCTION (DEB-8002619 A01)*; 12 MONTHS $37,700

ARNOLD, STEVAN J; *BEHAVIORAL DETERMINANTS OF REPRODUCTIVE SUCCESS (BNS-8014151*)*; 24 MONTHS $47,109

TEERI, JAMES A; *CRASSULACEAN ACID METABOLISM (DEB-8021270)*; 24 MONTHS $69,000

TEERI, JAMES A; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8022182)*; 24 MONTHS $5,110

HOPSON, JAMES A; *A SYSTEMATIC REVISION OF MAMMAL-LIKE REPTILES OF THE INFRAORDERS THEROCEPHALIA AND CYNODONTIA (DEB-8022183)*; 24 MONTHS $90,000

SCHEMSKE, DOUGLAS W; *SELFING AND OUTCROSSING IN IMPATIENS PALLIDA (DEB-8022[illegible]*; 24 MONTHS $47,500

KIESTER, A; *LIFE HISTORY AND DEMOGRAPHY OF THYSANOPTERA (DEB-8022188)*; 24 MONTHS $50,000

NAGYLAKI, THOMAS; *MATHEMATICAL MODELS OF GEOGRAPHIC AND PHENOTYPIC VARIATION (DEB-8103530)*; 36 MONTHS $35,650

LLOYD, MONTE B; *SYSTEMATICS OF THE MAGICICADA COMPLEX (DEB-8107038)*; 12 MONTHS $43,000

ARNOLD, STEVAN J; *QUANTITATIVE GENETICS AND SELECTION IN NATURAL POPULATIONS (DEB-8111489)*; 12 MONTHS $52,000

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

SPIESS, ELIOT B; *THE GENETIC BASIS OF BEHAVIOR OF DROSOPHILA (DEB-7903259 A02)*; 12 MONTHS $41,045

EMERSON, SHARON B; *STUDIES OF THE ANURAN PECTORAL MUSCULOSKELETAL SYSTEM (DEB-8020730)*; 24 MONTHS $26,000

WELLER, STEPHEN G; *LIFE HISTORY CHARACTERISTICS OF THE SAND DUNE SPECIES LITHOSPERMUM CAROLINIENSE (DEB-8021160)*; 12 MONTHS $21,000

UNIVERSITY OF ILLINOIS AT URBANA

PHILLIPS, TOMMY L; *QUANTITATIVE ANALYSIS OF MIDDLE PENNSYLVANIAN COAL-SWAMP VEGETATION IN RELATION TO COAL IN MIDCONTINENT UNITED STATES (EAR-7812954 A01*)*; 24 MONTHS $15,000

MAXSON, LINDA E; *EVOLUTIONARY AND SYSTEMATIC STUDIES IN AMPHIBIANS USING MOLECULAR PROBES (DEB-7823596 A03)*; 12 MONTHS $27,150

BAZZAZ, F A; *COLLABORATIVE STUDIES ON GENETIC POLYMORPHISM AND NICHE WIDTH IN PHLOX (DEB-7823657 A02)*; 12 MONTHS $31,566

LYNCH, MICHAEL R; *THE ADAPTIVE SIGNIFICANCE OF CLADOCERAN LIFE HISTORIES (DEB-7911773 A02)*; 12 MONTHS $26,170

CAROTHERS, ZANE B; *BLEPHAROPLASTS AND SPERMATOZOIDS AS SOURCES OF NEW PHYLOGENETIC INFORMATION (DEB-8004365 A01)*; 12 MONTHS $25,188

DEWET, JOHANNES M; *SYSTEMATICS OF TRIPSACUM (GRAMINEAE) (DEB-8020085)*; 12 MONTHS $32,654

HOFFMAN, LARRY R; *A TAXONOMIC AND PHYLOGENETIC INVESTIGATION OF THE SPHAEROPLEACEAE (DEB-8021988)*; 12 MONTHS $26,878

JONES, ALMUT G; *A TAXONOMIC REVISION AND BIOSYSTEMATIC INVESTIGATION OF ASTER SUBGENUS SYMPHYOTRICHUM (ASTERACEAE) (DEB-8022172)*; 36 MONTHS $42,778

AUGSPURGER, CAROL K; *SEED DISPERSAL AND FUNGAL MORTALITY OF NEOTROPICAL TREE SEEDLINGS (DEB-8103509)*; 24 MONTHS $61,267

BURLEY, NANCY; *THE ADAPTIVE EFFECT OF LABORATORY MARKING ON INTERINDIVIDUAL SELECTION (DEB-8104256)*; 24 MONTHS $68,992

WOESE, CARL R; *THE CLASSIFICATION OF PROCARYOTES (DEB-8107061)*; 12 MONTHS $60,000

UNIVERSITY OF ILLINOIS MEDICAL CTR AT CHICAGO

CRACRAFT, JOEL; *PHYLOGENY OF NON-PASSERIFORMES (AVES) (DEB-7921492 A01)*; 12 MONTHS $21,730

NAPLES, VIRGINIA; *MORPHOLOGY OF EDENTATE FEEDING MECHANISMS (DEB-8021743)*; 24 MONTHS $22,607

INDIANA

INDIANA STATE UNIVERSITY

BAKKEN, GEORGE S; *THERMOREGULATORY PHYSIOLOGICAL ECOLOGY AND MICROCLIMATE (DEB-8021321)*; 12 MONTHS $37,000

INDIANA UNIVERSITY, BLOOMINGTON

MAHLBERG, PAUL G; *EVOLUTION OF THE LATICIFER IN EUPHORBIA (DEB-7802045 A03)*; $8,966

DILCHER, DAVID L; *EARLY ANGIOSPERM EVOLUTION AND ECOLOGY (DEB-7910720 A01)*; 12 MONTHS $83,654

MALACINSKI, GEORGE M; *GENETIC STOCKS OF THE AXOLOTL, AMBYSTOMA MEXICANUM (DEB-8010618 A01)*; 12 MONTHS $65,000

HEISER, CHARLES B; *DEVELOPMENT OF NEW CYTOPLASMIC MALE STERILE SUNFLOWERS (DEB-8022558)*; 36 MONTHS $41,942

HEISER, CHARLES B; *SYSTEMATIC STUDIES OF LUFFA (DEB-8022777)*; 24 MONTHS $25,694

LANE, N G; *THE PALEOBIOLOGY OF CARBONIFEROUS MICROCRINOIDS (DEB-8102765)*; 24 MONTHS $34,433

KETTERSON, ELLEN D, AND NOLAN, VAL; *WINTER DISTRIBUTION OF DARK-EYED JUNCOS (DEB-8110457)*; 18 MONTHS $47,000

PURDUE UNIVERSITY

BROWN, KENNETH M; *INTRASPECIFIC LIFE HISTORY VARIATION IN LYMNAEA ELODES (DEB-7903850 A02)*; 24 MONTHS $46,551

KOCHOPKA, ALLAN; *PHYSIOLOGICAL ECOLOGY OF PLANKTONIC BLUE GREEN ALGAE (DEB-7904382 A02)*; 12 MONTHS $35,000

RABENOLD, KERRY N; *COMPARATIVE STUDIES OF COMPLEX SOCIAL GROUPS (DEB-8007717)*; 12 MONTHS $50,000

WASER, PETER M; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8010848)*; 12 MONTHS $3,299

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

MCDONALD, JOHN F; *GENETIC AND BIOCHEMICAL BASES OF ALCOHOL ADAPTATION IN DROSOPHILA (DEB-8021763)*; 12 MONTHS $55,000

POHL, RICHARD W; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATICS (DEB-8102766)*; 12 MONTHS $5,027

POHL, RICHARD W; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8102766 A01)*; $1,354

ISELY, DUANE; *LEGUMINOSE OF THE UNITED STATES (DEB-8103505)*; 24 MONTHS $6,700

UNIVERSITY OF IOWA

DINGLE, HUGH; *INSECT MIGRATION AND LIFE HISTORY STRATEGIES (DEB-7922144 A01)*; $49,953

HUBBELL, STEPHEN P; *DEMOGRAPHIC ANALYSIS OF A TROPICAL FOREST IN PANAMA (DEB-7922197 A01)*; 12 MONTHS $65,000

WIEMER, DAVID F, AND HUBBELL, STEPHEN P; *SEASONAL VARIATION IN PLANT PALATABILITY TO AN INSECT HERBIVORE (DEB-8010638)*; 12 MONTHS $48,130

FOSTER, ANN B; *MORPHOLOGICAL TRENDS WITHIN THE PHENOTYPICALLY PLASTIC REEF-CORAL GENUS MONTASTRAEA (DEB-8021318*)*; 24 MONTHS $41,860

DINGLE, HUGH, AND LESLIE, JAMES F; *POPULATION BIOLOGY OF A SEASONALLY MIGRATORY INSECT (DEB-8108903)*; 24 MONTHS $71,000

HENDRIX, STEPHEN D; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8110197)*; 18 MONTHS $6,000

KANSAS

KANSAS STATE UNIVERSITY

MARZOLF, GEORGE R; *THE ROLE OF SILTS AND CLAYS IN THE NUTRITION OF ZOOPLANKTON (DEB-7822629 A02)*; 12 MONTHS $39,349

HULBERT, LLOYD C; *FIRE EFFECTS IN BLUESTEM PRAIRIE (DEB-7922203 A01)*; 12 MONTHS $38,095

MARZOLF, GEORGE R; *THE ROLE OF FIRE AND OTHER DISTURBANCES IN DETERMINING ECOSYSTEM PROCESSES AND PATTERNS IN THE KONZA PRAIRIE, KANSAS (DEB-8012166 A01)*; 15 MONTHS $311,788

ROBEL, ROBERT J FRETWELL, STEPHEN D, AND ZIMMERMAN, JOHN L; *AN ENERGETIC APPROACH TO HABITAT EVALUATION (DEB-8022568)*; 12 MONTHS $27,000

HULBERT, LLOYD C; *FACILITIES SUPPORT FOR THE KONZA PRAIRIE RESEARCH NATURAL AREA (DEB-8115502)*; 24 MONTHS $50,000

UNIVERSITY OF KANSAS MAIN CAMPUS

MICHENER, CHARLES D; *THE EVOLUTION AND SYSTEMATICS OF APIDAE (DEB-7723035 A03)*; 12 MONTHS $50,000

MENGEL, ROBERT, AND JOHNSTON, RICHARD F; *PROTECTION AND ENHANCEMENT OF THE BIRD COLLECTION OF THE UNIVERSITY OF KANSAS (DEB-7804832 A01)*; 24 MONTHS $51,951

HOFFMANN, ROBERT S; *COLLABORATIVE RESEARCH ON SYSTEMATICS OF HOLARCTIC MAMMALS (DEB-8004148 A01)*; 12 MONTHS $29,600

HUMPHREY, PHILIP S; *SYSTEMATICS, ECOLOGY, AND PHYLOGENY OF TACHYERES (DEB-8012403*)*; 24 MONTHS $70,001

CROSS, FRANK B; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8017734)*; 19 MONTHS $5,490

HAMRICK, JAMES L; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8018717)*; 24 MONTHS $5,500

LICHTWARDT, ROBERT W; *SYSTEMATICS AND EVOLUTION OF THE TRICHOMYCETES (DEB-8019724)*; 12 MONTHS $19,049

LICHTWARDT, ROBERT W; *SYSTEMATICS AND EVOLUTION OF THE TRICHOMYCETES (DEB-8019724 A01)*; $10,721

GAINES, MICHAEL S; *DEMOGRAPHIC INVESTIGATION OF MICROTINE POPULATIONS (DEB-8020343)*; 12 MONTHS $28,912

KAESLER, ROGER L; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8021386)*; 24 MONTHS $6,447

O'BRIEN, W JOHN; *PLANKTIVOROUS FISH AND ZOOPLANKTON: THE PREDATOR-PREY INTERACTION (DEB-8021740)*; 12 MONTHS $45,961

BYERS, GEORGE W; *MECOPTERA OF MEXICO, CENTRAL AMERICA AND SOUTH AMERICA (DEB-8022342)*; 24 MONTHS $20,97

MICHENER, CHARLES D; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8023091)*; 24 MONTHS $4,395

WILEY, E O; *SYSTEMATICS OF FUNDULUS (DEB-8103532)*; 36 MONTHS $49,123

DUELLMAN, WILLIAM E; *SUPPORT OF HERPETOLOGICAL COLLECTIONS, MUSEUM OF NATURAL HISTORY (DEB-8105439)*; 24 MONTHS $100,773

FROST, JOHN S; *EVOLUTIONARY BIOLOGY OF THE RANA PIPIENS COMPLEX (DEB-8107625)*; 9 MONTHS $20,653

KENTUCKY

UNIVERSITY OF KENTUCKY

MEIJER, WILLEM; *TAXONOMY AND EVOLUTION OF RAFFLESIACEAE IN SOUTH EAST ASIA (DEB-8018993)*; 24 MONTHS $23,102

CROWLEY, PHILIP H; *COLLABORATIVE RESEARCH ON THE COEXISTENCE OF LITTORAL ODONATA (DEB-8104424)*; 12 MONTHS $32,489

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

PATRICK, WILLIAM H; *NITROUS OXIDE PRODUCTION IN THE DENITRIFICATION PROCESS IN THE WETLAND ECOSYSTEMS AND ACID SOILS (DEB-7727520 A02)*; 12 MONTHS $66,044

HAFNER, MARK S; *RELATIONSHIPS AND ZOOGEOGRAPHY OF MIDDLE AMERICAN GEOMYOIDS (DEB-8107039*)*; 36 MONTHS $65,969

TULANE UNIVERSITY

DARWIN, STEVEN P; *A REVISION OF THE GENUS TIMONIUS (RUBIACEAE) (DEB-8102781)*; 36 MONTHS $45,024

UNIVERSITY OF SOUTHWESTERN LOUISIANA

BROWN, ROY C, AND LEMMON, BETTY; *COMPARATIVE SPORE MORPHOLOGY IN THE PHYLOGENY OF MOSSES (MUSCI) (DEB-8102761)*; 24 MONTHS $35,716

MAINE

JACKSON LABORATORY

RODERICK, THOMAS H; *MOUSE MUTANT STOCKS CENTER (DEB-7926708 A01)*; 12 MONTHS $115,690

UNIVERSITY OF MAINE, ORONO

RINGO, JOHN M; *EXPERIMENTAL ANALYSIS OF SPECIATION MECHANISMS (DEB-7903866 A02)*; 12 MONTHS $21,193

JACOBSON, GEORGE L; *VEGETATION DEVELOPMENT AND CLIMATIC CHANGE IN MAINE DURING THE PAST 14,000 YEARS (DEB-8004171 A01)*; 12 MONTHS $64,690

MARYLAND

AMERICAN TYPE CULTURE COLLECTION

DAGGETT, PIERRE-MA; *DEVELOPMENT OF THE ATCC PROTOZOAN COLLECTION (DEB-7907336 A02)*; 12 MONTHS $68,740

JONG, S C; *QUALITY CONTROL IN THE AMERICAN TYPE CULTURE COLLECTION (DEB-7921031 A01)*; 12 MONTHS $92,958

GHERNA, ROBERT L; *TAXONOMIC STATUS OF THE BACTERIA OF THE AMERICAN TYPE CULTURE COLLECTION (DEB-7921436 A01)*; 12 MONTHS $102,200

CHESAPEAKE RESEARCH CONSORTIUM INC

CORRELL, DAVID C; *NUTRIENT DYNAMICS OF THE RHODE RIVER ECOSYSTEM (DEB-7911563 A01)*; 14 MONTHS $240,115

JOHNS HOPKINS UNIVERSITY

POWERS, DENNIS A; *MOLECULAR EVOLUTION IN FISH (DEB-7912216 A02)*; 12 MONTHS $44,500

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

BRADLEY, BRIAN P; *THE ADAPTIVE STRATEGY OF THE COPEPOD EURYTEMORA AFFINIS IN SEASONAL TEMPERATURES (DEB-7726921 A01)*; 24 MONTHS $60,000

UNIVERSITY OF MARYLAND, COLLEGE PARK

COLWELL, RITA R; *SYSTEMATICS OF THE GENUS VIBRIO (DEB-7714646 A04)*; 12 MONTHS $59,643

HIGHTON, RICHARD; *THE GENETIC VARIATION OF SPECIES OF THE GENUS PLETHODON (DEB-7903858 A03)*; $10,930

HIGHTON, RICHARD; *THE GENETIC VARIATION OF SPECIES OF THE GENUS PLETHODON (DEB-7903858 A04)*; 12 MONTHS $45,100

ALLAN, J DAVID; *LIFE HISTORY VARIATION IN A CYCLOPOID COPEPOD (DEB-8004450 A01)*; 12 MONTHS $44,980

GILL, DOUGLAS E; *THE REGULATION OF NATURAL METAPOPULATIONS (DEB-8005080 A01)*; 12 MONTHS $42,837

BARBOSA, PEDRO; *INSECT PARASITOID FITNESS AND HERBIVORE NUTRITION (DEB-8019730)*; 12 MONTHS $21,968

INOUYE, DAVID W; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8020486)*; 24 MONTHS $4,094

DAVIDSON, JOHN A; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8105441)*; 12 MONTHS $1,797

MASSACHUSETTS

BATTELLE MEMORIAL INSTITUTE-BATTELLE WILLIAM F CLAPP LABORATORIES INC

BLAKE, JAMES A, AND BLAKE, NANCY M; *POLYCHAETOUS ANNELIDS OF NORTHEASTERN NORTH AMERICA (DEB-8103210*)*; 24 MONTHS $89,619

BOSTON UNIVERSITY

VALIELA, IVAN; *DECOMPOSITION PROCESSES IN SALT MARSHES (DEB-7905127 A03)*; $11,437

VALIELA, IVAN; *DECOMPOSITION PROCESSES IN SALT MARSHES (DEB-7905127 A04)*; 12 MONTHS $343,562

HUMES, ARTHUR G; *A REVISION OF THE XARIFIID ASSOCIATES OF CORALS (DEB-8016241)*; 12 MONTHS $28,586

TAMARIN, ROBERT H, AND LEVY, CHARLES K; *DETERMINING KINSHIP IN VOLES (MICROTUS) WITH RADIONUCLIDES (DEB-8103483)*; 12 MONTHS $44,500

GOLUBIC, STJEPKO, CAMERON, BARRY W, AND CAMPBELL, SUSAN E; *FOSSIL ENDOLITHIC ALGAE AND FUNGI: DEPTH DISTRIBUTION, PALEOECOLOGY AND EVOLUTION (EAR-8107686*)*; 12 MONTHS $20,000

VALIELA, IVAN; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8109371)*; 24 MONTHS $5,300

HARVARD UNIVERSITY

SCHULTES, RICHARD E; *ETHNOPHARMACOLOGY AND ETHNOTOXICOLOGY OF THE NORTHWEST AMAZON (DEB-7520107 A04*)*; 12 MONTHS $6,407

GOULD, STEPHEN J; *VARIATION, ECOLOGY, AND EVOLUTION OF CERION (DEB-7714618 A04*)*; 12 MONTHS $81,164

WILSON, EDWARD O; *BEHAVIOR AND ORGANIZATION IN INSECT SOCIETIES (DEB-7727515 A03)*; 12 MONTHS $51,117

SOLBRIG, OTTO T; *POPULATION BIOLOGY OF SPECIES OF VIOLO (DEB-8003796 A01)*; $7,300

LEVI, HERBERT W, AND SEBENS, KENNETH P; *COELENTERATE RELOCATION AND RENOVATION (DEB-8019732)*; 18 MONTHS $81,189

LEVI, HERBERT W; *SYSTEMATICS OF THE ARANEIDAE (DEB-8020492)*; 12 MONTHS $29,437

LIEM, KAREL F; *MANAGEMENT, MAINTENANCE AND USE OF THE FISH COLLECTION (DEB-8020591)*; 12 MONTHS $35,486

JENKINS, FARISH A; *STRUCTURE, FUNCTION, AND LOCOMOTION IN MAMMALS AND REPTILES (DEB-8025465)*; 24 MONTHS $61,000

CROMPTON, ALFRED W; *THE CRANIUM IN ADVANCED MAMMAL-LIKE REPTILES AND EARLY MAMMALS (DEB-8101094)*; 24 MONTHS $63,000

WOOD, CARROLL E, AND STEVENS, PETER F; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8105723)*; 24 MONTHS $6,955

TRYON, ROLLA M, AND TRYON, ALICE F; *EVOLUTION OF SURFACE AND WALL STRUCTURE OF PTERIDOPHYTE SPORES (DEB-8105726)*; 12 MONTHS $25,901

JENKINS, FARISH A; *REORGANIZATION OF THE VERTEBRATE PALEONTOLOGY COLLECTION (DEB-8109911)*; 24 MONTHS $116,434

WOOD, CARROLL E, AND MILLER, NORTON G; *A GENERIC FLORA OF THE SOUTHEASTERN UNITED STATES (PHASE II) (DEB-8111520)*; 12 MONTHS $67,625

HARVARD UNIVERSITY-HERBARIUM

ROLLINS, REED C; *THE CRUCIFERAE OF NORTH AMERICA (DEB-7808766 A03)*; 12 MONTHS $19,087

SOLBRIG, OTTO T; *SUPPORT OF BOTANICAL SYSTEMATIC COLLECTIONS AT HARVARD UNIVERSITY (DEB-8005591 A01)*; 12 MONTHS $260,452

PFISTER, DONALD H; *NORTH AMERICAN PEZIZALES (DEB-8023018)*; 36 MONTHS $63,368

HARVARD UNIVERSITY-SCHOOL OF PUBLIC HEALTH

LEVINS, RICHARD; *QUALITATIVE ANALYSIS OF PARTIALLY SPECIFIED SYSTEMS (MCS-8010805 A01*)*; 12 MONTHS $21,000

MANOMET BIRD OBSERVATORY

YOUNGSTROM, KENNETH A; *MULTI-USE COMPUTER FOR AVIAN BIOLOGY FIELD STATION (DEB-8025034)*; 6 MONTHS $24,900

MARINE BIOLOGICAL LABORATORY

HOBBIE, JOHN E; *ECOLOGICAL PRINCIPLES APPLIED TO PREDICTION OF WATER QUALITY IN DRAINAGE BASINS (DEB-7828101 A02*)*; 12 MONTHS $130,000

SHAVER, GAIUS R, AND MELILLO, JERRY M; *RECOVERY OF NUTRIENTS FROM SENESCING PLANT TISSUES (DEB-8004174 A02)*; 12 MONTHS $68,780

MITTON, JEFFRY B; *MORPHOLOGICAL AND GENETIC STUDIES OF THE SYSTEMATICS OF MYTILUS EDULIS (DEB-8103520)*; 6 MONTHS $9,505

PETERSON, BRUCE J; *DYNAMICS OF SULFUR IN A SALT MARSH ECOSYSTEM (DEB-8104701*)*; 12 MONTHS $162,533

UNIVERSITY OF MASSACHUSETTS, AMHERST

WALKER, JAMES W; *POLLEN MORPHOLOGY AND SYSTEMATICS OF FOUR RANALEAN PLANT FAMILIES (DEB-7904213 A02)*; 12 MONTHS $24,609

DAVIS, EDWARD L; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATC BIOLOGY (DEB-7921962 A01)*; $1,157

SCHUSTER, RUDOLF M; *SYSTEMATIC STUDIES ON THALLOID HEPATICAE (DEB-8103516)*; 36 MONTHS $61,806

WOODS HOLE OCEANOGRAPHIC INSTITUTION

SCHELTEMA, RUDOLF S; *IMPLICATIONS OF PELAGIC INVERTEBRATE-LARVAE FOR ZOOGEOGRAPHY AND EVOLUTION IN THE PRESENT AND GEOLOGIC PAST (EAR-7926381 A01*)*; $20,000

TEAL, JOHN M; *PRODUCTION AND SPECIES DISTRIBUTION IN FERTILIZED AND CONTROL SALT MARSH PLANTS (DEB-8012437 A01)*; 12 MONTHS $15,804

TEAL, JOHN M; *GAS TRANSPORT IN SPARTINA ALTERNIFLORA: MECHANISMS AND INFLUENCES ON PRIMARY PRODUCTION (DEB-8021741)*; 24 MONTHS $73,000

NAIMAN, ROBERT J; *THE ROLE OF WOODY DEBRIS IN NORTHERN STREAM AND RIVER ECOSYSTEMS (DEB-8105677)*; 24 MONTHS $156,086

MICHIGAN

AMERICAN ENTOMOLOGICAL INSTITUTE

TOWNES, HENRY K; *ICHNEUMON-FLIES OF AMERICA NORTH OF MEXICO: SUBFAMILY TRYPHONINAE (HYMENOPTERA) (DEB-8014042)*; 1[illegible] MONTHS $33,400

MICHIGAN STATE UNIVERSITY

WERNER, EARL E, AND HALL, DONALD J; *SIZE-CLASS INTERACTIONS AND NICHE STRUCTURE IN FISH COMMUNITIES (DEB-7824271 A02)*; 12 MONTHS $74,097

HART, DAVID D; *COMPETITION AND COEXISTENCE IN A GUILD OF GRAZING STREAM INSECTS (DEB-7913604 A02)*; 24 MONTHS $78,039

WERNER, PATRICIA A; *PLANT LIFE HISTORY TRADEOFFS IN THE REGENERATIVE STAGES (DEB-7923945 A01)*; 12 MONTHS $45,001

TIEDJE, JAMES M; *DENITRIFICATION IN NATURAL ECOSYSTEMS (DEB-8012163 A01)*; 12 MONTHS $138,331

KLUG, MICHAEL J, MERRITT, RICHARD W, MARTIN, MICHAEL M, AND CUMMINS, KENNETH W; *INVERTEBRATE MICROBIAL INTERACTIONS INFLUENCING DETRITAL PROCESSING IN LOTIC ECOSYSTEMS (DEB-8022634)*; 12 MONTHS $150,276

KLUG, MICHAEL J, AND TIEDJE, JAMES M; *MICROBIAL DECOMPOSITION IN LAKE SEDIMENTS (DEB-8109994)*; 12 MONTHS $130,420

MURPHY, PETER G; *SEASONAL DYNAMICS AND SUCCESSION IN A SUBTROPICAL DRY FOREST (DEB-8110208)*; 12 MONTHS $39,904

GOLDBERG, DEBORAH E, AND WERNER, PATRICIA A; *EQUIVALENCE OF COMPETITORS IN PLANT COMMUNITIES (DEB-8111315)*; 24 MONTHS $68,000

MICHIGAN TECHNOLOGICAL UNIVERSITY

PETERSON, ROLF O; *POPULATION DYNAMICS OF WOLVES AND MOOSE IN AN ISLAND ECOSYSTEM-LTREB (DEB-8011654)*; 12 MONTHS $24,005

UNIVERSITY OF MICHIGAN-ANN ARBOR

SMOUSE, PETER E; *POPULATION GENETICS OF TROPICAL AMERINDIANS (DEB-7823293 A02)*; 12 MONTHS $70,000

CONGDON, JUSTIN D, AND ALEXANDER, RICHARD D; *LIFE HISTORY CHARACTERISTICS OF REPTILES (DEB-7906031 A03)*; 12 MONTHS $26,027

SMOUSE, PETER E; *STUDIES OF ECOLOGICAL SELECTION IN HAPLOID POPULATIONS (DEB-7910490 A01)*; 12 MONTHS $32,000

SHAFFER, ROBERT L; *CURATION AT THE UNIVERSITY OF MICHIGAN HERBARIUM (DEB-7919371 A01)*; 12 MONTHS $118,020

GRANT, PETER R; *ECOLOGY AND BEHAVIOR OF GEOSPIZA ON THE GALAPAGOS ISLANDS (DEB-7921119 A01)*; 12 MONTHS $81,984

GANS, CARL; *SYSTEMATIC STUDIES OF SQUAMATE REPTILIA (DEB-8003678)*; 12 MONTHS $40,000

VOSS, EDWARD G; *REVISION OF THE INTERNATIONAL CODE OF BOTANICAL NOMENCLATURE (DEB-8008083)*; 30 MONTHS $6,463

GINGERICH, PHILIP D; *EVOLUTION OF THE NORTH AMERICAN MAMMALIAN FAUNA ACROSS THE PALEOCENE-EOCENE BOUNDARY (DEB-8010846*)*; 24 MONTHS $56,900

SMITH, GERALD R; *SUPPORT FOR THE COLLECTIONS OF THE DIVISION OF FISHES (DEB-8017448)*; 24 MONTHS $64,706

DAWSON, WILLIAM R; *ADAPTATION TO CLIMATE (DEB-8021389)*; 12 MONTHS $42,500

ADAMS, JULIAN P; *EVOLUTION IN BACTERIAL/PLASMID POPULATIONS (DEB-8022185)*; 12 MONTHS $42,000

FOGEL, ROBERT; *A TAXONOMIC REVISION OF THE GENUS HYMENOGASTER (BASIDIOMYCOTINA) IN NORTH AMERICA (DEB-8023343)*; 12 MONTHS $22,301

GATES, DAVID M; *PARTIAL SUPPORT OF RESEARCH OPERATIONAL COSTS (DEB-8100355)*; 36 MONTHS $118,074

RABINOWITZ, DEBORAH; *MECHANISMS OF PERSISTENCE IN SPARSE PRAIRIE GRASSES (DEB-8103503)*; 24 MONTHS $120,036

ANDERSON, WILLIAM R; *SYSTEMATIC STUDIES OF NEOTROPICAL MALPIGHIACEAE (DEB-8103522)*; 36 MONTHS $54,992

BROWN, WESLEY M, AND WRIGHT, JOHN W; *MITOCHONDRIAL DNA AND THE GENUS CNEMIDOPHORUS (DEB-8105615)*; 12 MONTHS $68,002

VANDERMEER, JOHN H; *ECOLOGY OF YIELD ADVANTAGE OF INTERCROP ECOSYSTEMS (DEB-8108271*)*; 24 MONTHS $107,080

BENNINGHOFF, WILLIAM S; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8108504)*; 24 MONTHS $5,500

ANDERSON, WILLIAM R, AND BORNSTEIN, ALLAN J; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8116762)*; 12 MONTHS $6,457

WAYNE STATE UNIVERSITY

GOODMAN, MORRIS; *BIOMOLECULAR SYSTEMATICS OF PRIMATES AND OTHER EUTHERIA (DEB-7810717 A02*)*; 12 MONTHS $38,955

ROMERO-HERRERA , ALEJO E; *MYOGLOBIN AND VERTEBRATE RELATIONSHIPS (DEB-8021161)*; 12 MONTHS $41,900

MOORE, WILLIAM S; *HYBRID ZONES AND SPECIATION THEORY (DEB-8105195)*; 12 MONTHS $33,000

COOK, DAVID R; *SPECIES AND ZOOGEOGRAPHIC RELATIONSHIPS OF AUSTRAL HYDRACARINA (DEB-8108264)*; 24 MONTHS $48,337

FREEMAN, D CARL; *THE ADAPTIVE SIGNIFICANCE OF SEASONAL CHANGES IN POLLEN AND SEED PRODUCTION IN A SUB-DIOECIOUS PLANT (DEB-8111010*)*; 12 MONTHS $35,000

MINNESOTA

UNIVERSITY OF MINNESOTA-AGRICULTURAL EXPERIMENT STATION

SHAPIRO, JOSEPH; *COMPLEX INTERACTIONS BETWEEN DAPHNIA AND APHANIZOMENON (DEB-7921755 A01)*; 12 MONTHS $89,305

SHAPIRO, JOSEPH; *COMPLEX INTERACTIONS BETWEEN DAPHNIA AND APHANIZOMENON (DEB-7921755 A02)*; $7,000

UNIVERSITY OF MINNESOTA-MEDICAL SCHOOL

SCHMIDT, EDWIN L; *LECTIN BINDING AS THE BASIS FOR SPECIFICITY IN SYMBIOTIC RHIZOBIUM-LEGUME NITROGEN FIXATION (DEB-7710172 A03)*; 4 MONTHS $14,480

UNIVERSITY OF MINNESOTA

SCHMIDT, EDWIN L; *IMMUNOFLUORESCENCE STUDY OF THE ECOLOGY OF MICROORGANISMS IN NATURAL ENVIRONMENTS (DEB-7827046 A02)*; 12 MONTHS $27,500

MORROW, PATRICE A; *EFFECTS OF PLANT NUTRIENT STATUS ON INSECT DAMAGE TO EUCALYPTUS (DEB-7904953 A02)*; 12 MONTHS $28,987

DAVIS, MARGARET B; *RANGE EXTENSIONS OF FOREST TREES FOLLOWING PLEISTOCENE GLACIATION (DEB-7909801 A02)*; 12 MONTHS $68,282

GORHAM, EVILLE; *THE ECOLOGY AND BIOGEOCHEMISTRY OF SPHAGNUM BOGS IN NORTH AMERICA (DEB-7922142 A01)*; 12 MONTHS $450,503

WRIGHT, HERBERT E; *STUDIES IN QUATERNARY PALEOLIMNOLOGY (DEB-8004286 A01)*; 12 MONTHS $74,449

MORROW, PATRICE A; *EFFECTS OF SIMILARITY AMONG PLANTS ON COLONIZATION BY ARTHROPODS (DEB-8109134)*; 12 MONTHS $42,960

WRIGHT, HERBERT E; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8109902)*; 6 MONTHS $1,582

MISSISSIPPI

MISSISSIPPI STATE UNIVERSITY

FRENCH, JAMES C; *COMPARATIVE ANATOMY OF THE CYCLANTHACEAE AND CERTAIN ARACEAE (DEB-8020726)*; 24 MONTHS $56,672

MISSOURI

MISSOURI BOTANICAL GARDEN

GOLDBLATT, PETER; *SYSTEMATIC AND EVOLUTIONARY STUDIES IN IRIDACEAE (DEB-7810655 A02)*; 12 MONTHS $19,395

STEVENS, WARREN D; *FLORISTICS OF NICARAGUA (DEB-7811123 A01)*; 12 MONTHS $24,000

GOLDBLATT, PETER; *INDEX TO PLANT CHROMOSOME NUMBERS (DEB-7823391 A01)*; $12,256

RAVEN, PETER H; *SYSTEMATIC AND EVOLUTIONARY STUDIES IN THE PLANT FAMILY ONAGRACEAE (DEB-7823400 A04)*; 12 MONTHS $57,277

RAVEN, PETER H; *SYSTEMATIC AND EVOLUTIONARY STUDIES IN THE PLANT FAMILY ONAGRACEAE (DEB-7823400 A05)*; $9,692

GENTRY, ALWYN H; *THE FLORA OF PERU (DEB-7905078 A01)*; $3,823

D'ARCY, WILLIAM G; *SUSTAINED PLANT SAMPLING AND PHYTOGEOGRAPHY IN PANAMA (DEB-7922192 A01*)*; 12 MONTHS $54,724

CROSBY, MARSHALL R; *SUPPORT FOR SYSTEMATICS RESEARCH COLLECTIONS AT THE MISSOURI BOTANICAL GARDEN (DEB-8005563 A01)*; 12 MONTHS $180,000

GENTRY, ALWYN H; *FLORISTICS AND PHYTOGEOGRAPHIC PATTERNS IN AMAZONIAN PERU (DEB-8006253 A01)*; $8,800

DAVIDSE, GERRIT; *BOTANICAL EXPLORATION IN VENEZUELA (INT-8009802*)*; 24 MONTHS $32,281

CROAT, THOMAS B; *A REVISION OF ANTHURIUM SECTION PACHYNEURIUM (ARACEAE) (DEB-8011649 A01)*; 12 MONTHS $55,747

MCPHERSON, GORDON D; *FLORISTIC INVENTORY OF MONT PANIE, NEW CALEDONIA (DEB-8022179)*; 24 MONTHS $29,973

DAVIDSE, GERRIT; *FLORA MESOAMERICANA (DEB-8107868)*; 12 MONTHS $67,838

WASHINGTON UNIVERSITY

JOHNSON, GEORGE B; *ELECTROPHORETIC VARIATION IN POPULATIONS OF DROSOPHILA (DEB-7815831 A02)*; 12 MONTHS $51,000

SCHAAL, BARBARA A; *STUDIES IN THE GENUS LUPINUS (DEB-8010335 A01)*; 12 MONTHS $28,469

MONTANA

MONTANA STATE UNIVERSITY

WARD, DAVID M; *ANAEROBIC DECOMPOSITION IN HOT SPRING ALGAL-BACTERIAL MATS (DEB-8023341)*; 12 MONTHS $43,337

UNIVERSITY OF MONTANA

STARK, NELLIE M; *ACQUISITION OF AN INDUCTIVELY COUPLED PLASMA SPECTROMETER FOR ECOLOGICAL RESEARCH IN MONTANA (DEB-8014071)*; 12 MONTHS $59,900

JENNI, DONALD A; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8016658)*; 16 MONTHS $6,135

NEVADA

UNIVERSITY OF NEVADA, LAS VEGAS

STARKWEATHER, PETER L; *TROPHIC ECOLOGY AND POPULATION DYNAMICS OF BRACHIONID ROTIFERS (DEB-8105724)*; 12 MONTHS $65,943

NEW HAMPSHIRE

DARTMOUTH COLLEGE

GILBERT, JOHN J, AND STARKWEATHER, PETER L; *TROPHIC ECOLOGY AND FEEDING BEHAVIOR OF PLANKTONIC ROTIFERS AND THEIR COPEPOD PREDATORS (DEB-7802882 A04)*; 1 MONTHS $9,000

GILBERT, JOHN J, AND STARKWEATHER, PETER L; *TROPHIC ECOLOGY AND FEEDING BEHAVIOR OF PLANKTONIC ROTIFERS AND THEIR COPEPOD PREDATORS (DEB-7802882 A05)*; 6 MONTHS $11,598

REINERS, WILLIAM A; *BIOGEOCHEMICAL PROCESSES IN MOUNTAIN FORESTS OF NEW ENGLAND (DEB-7907346 A02)*; 12 MONTHS $100,365

HOLMES, RICHARD T; *COMPETITIVE INTERACTIONS, INCLUSIVE NICHES AND THE EVOLUTION OF LIFE HISTORY TRAITS (DEB-8008614)*; 24 MONTHS $90,000

HOLMES, RICHARD T, AND SCHULTZ, JOHN C; *THE REGULATION OF HERBIVORY IN NORTHERN HARDWOODS ECOSYSTEMS (DEB-8022174)*; 12 MONTHS $96,883

STOIBER, RICHARD E; *MASAYA VOLCANO, NICARAGUA, VOLCANOLOGY AND THE EFFECTS OF THE HIGH LEVEL OF GAS EMISSION (12R-8025719*)*; 12 MONTHS $35,000

NEW JERSEY

PRINCETON UNIVERSITY

BAIRD, DONALD; *A DINOSAUR NESTING GROUND: EGGS, JUVENILES AND SOCIAL STRUCTURE (EAR-8007817 A01*)*; 12 MONTHS $25,000

TERBORGH, JOHN W; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8025975)*; 24 MONTHS $3,483

MAY, ROBERT M; *REGULATION OF NATURAL POPULATIONS BY INFECTIOUS DISEASES (DEB-8102783*)*; 24 MONTHS $45,220

HOOGLAND, JOHN L; *INTRAPOPULATION INTERRELATIONSHIPS AND AVOIDANCE OF INBREEDING (DEB-8102791)*; 24 MONTHS $77,000

RUTGERS UNIVERSITY

VRIJENHOEK, ROBERT C; *ECOLOGICAL-GENETIC STUDIES OF POECILIOPSIS (DEB-7916220 A02)*; 12 MONTHS $37,703

PICKETT, STEWARD T; *RESPONSE OF HERBACEOUS POPULATIONS TO THE CREATION OF GAPS IN DECIDUOUS FOREST (DEB-8003504 A01)*; 12 MONTHS $25,936

FORMAN, RICHARD T; *COMMUNITY/ECOSYSTEM STABILITY AND LANDSCAPE CONFIGURATION (DEB-8004653 A01)*; 12 MONTHS $37,761

NEW MEXICO

NEW MEXICO STATE UNIVERSITY

WHITFORD, WALTER G; *DECOMPOSITION AND NUTRIENT CYCLING PROCESSES IN A DESERT ECOSYSTEM (DEB-8020083)*; 24 MONTHS $350,000

UNIVERSITY OF NEW MEXICO

LIGON, J D, AND LIGON, SANDRA H; *AN ECOLOGICAL AND EVOLUTIONARY STUDY OF COMMUNALITY IN TWO TROPICAL BIRDS (DEB-7905866 A02)*; 12 MONTHS $32,500

CATES, REX G; *PLANT-HERBIVORE COMMUNITY AND POPULATION DYNAMICS (DEB-7927067 A01)*; 12 MONTHS $70,638

WIENS, JOHN A, AND CATES, REX G; *PATCH DYNAMICS IN SHRUB-STEPPE ECOSYSTEMS AND THE ROLE OF AVIAN PREDATORS (DEB-8017445)*; 12 MONTHS $165,514

GOSZ, JAMES R, AND BROOKINS, DOUGLAS G; *QUANTIFICATION OF ATMOSPHERIC INPUTS WITH STRONTIUM ISOTOPE RATIOS (DEB-8103538)*; 12 MONTHS $99,999

TAYLOR, FRITZ; *DIAPAUSE INDUCTION UNDER CONDITIONS OF CHANGING PHOTOPERIOD AND TEMPERATURE (DEB-8104698)*; 24 MONTHS $66,816

LIGON, J D, AND STACEY, PETER B; *ADAPTIVE SIGNIFICANCE OF COOPERATIVE POLYANDRY (DEB-8105719)*; 12 MONTHS $27,858

CATES, REX G; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8105721)*; 12 MONTHS $1,088

NEW YORK

AMERICAN MUSEUM OF NATURAL HISTORY

SCHUH, RANDALL T; *CURATORIAL SUPPORT OF COLLECTIONS OF DEPARTMENT OF ENTOMOLOGY (DEB-7921780 A01)*; 12 MONTHS $100,118

BATTEN, ROGER L, AND HAUGH, BRUCE N; *MULTI-USER EQUIPMENT REQUEST FOR ELECTRON MICROSCOPE AT AMERICAN MUSEUM OF NATURAL HISTORY (DEB-8012063*)*; 12 MONTHS $100,000

ANDERSON, SYDNEY; *OPERATIONAL SUPPORT FOR THE MAMMALOGY COLLECTION (DEB-8021742)*; 12 MONTHS $16,760

ROSEN, DONN E; *INTERRELATIONSHIPS OF PERCOMORPH FISHES, AND TELEOSTEAN CLASSIFICATION (DEB-8100103)*; 24 MONTHS $29,050

GAFFNEY, EUGENE S; *SUPPORT FOR FOSSIL AMPHIBIAN, REPTILE, AND BIRD COLLECTION (DEB-8108905)*; 12 MONTHS $44,000

TEDFORD, RICHARD H; *HIPPARIONINE HORSES - INTERNATIONAL WORKING SYMPOSIUM (EAR-8110870*)*; 12 MONTHS $10,000

ASSOCIATION OF SYSTEMATICS COLLECTIONS

LEE, WELTON L; *CONFERENCE ON THE MANAGEMENT OF VOUCHER SPECIMENS, ELKRIDGE, MARYLAND, APRIL 1981 (DEB-8020909)*; 12 MONTHS $25,000

EDWARDS, STEPHEN R; *ANALYSIS OF THE SYSTEMATIC BIOLOGY COMMUNITY (DEB-8112876*)*; 12 MONTHS $80,794

CITY COLLEGE

GALLAGHER, JANE C; *PHYSIOLOGICAL VARIABILITY AND POPULATION GENETICS OF SKELETONEMA COSTATUM, A PLANKTONIC MARINE DIATOM (DEB-8021744*)*; 12 MONTHS $24,000

COLLEGE AT NEW PALTZ

BRENNER, GILBERT J; *PALEOEQUATORIAL, EARLY ANGIOSPERM POLLEN FROM THE LOWER CRETACEOUS OF ISRAEL (DEB-8011653 A01)*; 12 MONTHS $25,693

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

BROECKER, WALLACE S; *EXPERIMENTAL ACIDIFICATION OF LAKES (DEB-8017639)*; 12 MONTHS $199,998

HEUSSER, LINDA E; *QUATERNARY PALEOECOLOGY OF NORTH COASTAL CALIFORNIA (DEB-8109916)*; 12 MONTHS $39,611

CORNELL UNIVERSITY

CHABOT, BRIAN F; *LOCAL DISTRIBUTION LIMITS OF PLANT POPULATIONS (DEB-7708432 A03)*; 12 MONTHS $9,918

FEENY, PAUL P; *COMPARATIVE POPULATION AND CHEMICAL ECOLOGY OF HERBIVOROUS INSECTS (DEB-7922130 A01)*; 12 MONTHS $72,903

PIMENTEL, DAVID; *GENETIC FEEDBACK INTERACTIONS IN PARASITE-HOST SYSTEMS (DEB-8010912 A01)*; 12 MONTHS $46,353

TAUBER, MAURICE J, AND TAUBER, CATHERINE A; *GENETICS OF INSECT DIAPAUSE (DEB-8020988)*; 12 MONTHS $51,000

CISNE, JOHN L; *SYSTEMATICS AND PALEONTOLOGY OF MARINE INVERTEBRATES (DEB-8021158*)*; 12 MONTHS $12,000

LIKENS, GENE E; *COLLABORATIVE RESEARCH ON HYDROLOGIC-NUTRIENT CYCLE INTERACTION IN SMALL UNDISTURBED AND MANIPULATED ECOSYSTEMS (DEB-8109669*)*; 12 MONTHS $177,149

PIMENTEL, DAVID; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8111022)*; 12 MONTHS $4,090

BROTHERS, EDWARD B, AND SCHOKNECHT, ROBERT G; *ANALYSIS OF THE SYSTEMATIC BIOLOGY COMMUNITY (DEB-8112457)*; 12 MONTHS $42,315

MARKS, PETER L; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8112471)*; 12 MONTHS $1,300

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

GULLEDGE, JAMES L; *CURATORIAL SUPPORT OF THE ORNITHOLOGICAL COLLECTION OF THE LIBRARY OF NATURAL SOUNDS (DEB-7821438 A02)*; 12 MONTHS $59,000

EMLEN, STEPHEN T; *FIELD STUDY OF COOPERATIVE BEHAVIOR (BNS-7924436 A01*)*; 12 MONTHS $31,177

LEVIN, SIMON A; *MATHEMATICAL THEORIES OF POPULATION DYNAMICS AND COMMUNITY STRUCTURE (MCS-8001618 A01*)*; 12 MONTHS $10,000

SHERMAN, PAUL W; *ADAPTIVE SIGNIFICANCE OF MAMMALIAN BEHAVIOR (BNS-8105285*)*; 13 MONTHS $11,400

CORNELL UNIVERSITY-CORNELL UNIVERSITY - STATE

WHALEN, MICHAEL D; *SYSTEMATIC STUDIES OF SOLANUM SUBGENUS LEPTOSTEMONUM (DEB-8021440)*; 12 MONTHS $28,688

BATES, DAVID M, AND UHL, NATALIE W; *STUDIES TOWARD A GENERA PALMARUM (DEB-8109374)*; 12 MONTHS $67,840

NEW YORK BOTANICAL GARDEN

HOLMGREN, PATRICIA; *SUPPORT OF THE SYSTEMATIC COLLECTIONS (DEB-7824322 A02)*; 12 MONTHS $204,880

LONG, CHARLES R; *A MODERN BIBLIOGRAPHY OF THE LITERATURE OF SYSTEMATIC BOTANY (DEB-8007704 A01)*; 12 MONTHS $17,150

KOYAMA, TETSUO M; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8009428)*; 12 MONTHS $4,965

MORI, SCOTT A, AND PRANCE, GHILLEAN T; *MONOGRAPHIC STUDY OF NEOTROPICAL LECYTHIDACEAE - PART II (DEB-8020920)*; 24 MONTHS $41,753

BUCK, WILLIAM R; *A MOSS FLORA OF THE WEST INDIES I. THE GREATER ANTILLES AND THE PLEUROCARPOUS MOSSES (DEB-8021729)*; 12 MONTHS $32,467

PRANCE, GHILLEAN T; *PROJETO FLORA AMAZONICA PHASE III (DEB-8106632)*; 12 MONTHS $23,930

LANDRUM, LESLIE R; *MONOGRAPHIC STUDY OF THE GENERA ACCA, BLEPHAROCALYX, CAMPOMANESIA, LUMA AND PIMENTA (MYRTACEAE) (DEB-8111063)*; 24 MONTHS $25,089

NEW YORK UNIVERSITY

BOROWSKY, RICHARD L; *TAILSPOT POLYMORPHISM OF XIPHOPHORUS VARIATUS (DEB-7912341 A02)*; 12 MONTHS $45,267

ROCKEFELLER UNIVERSITY

COHEN, JOEL E; *MATHEMATICAL MODELS OF SELECTION AND INTERACTION AMONG POPULATIONS (DEB-8011026 A01)*; 12 MONTHS $97,000

STATE UNIVERSITY AT ALBANY

PULLIAM, H RONALD; *POPULATION REGULATION OF EMBERIZINAE POPULATIONS (DEB-8013017)*; 24 MONTHS $60,029

ABLE, KENNETH P; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8017447)*; 12 MONTHS $2,850

STATE UNIVERSITY AT BINGHAMTON

TITUS, JOHN, AND ANDRUS, RICHARD E; *AN INTEGRATIVE EVALUATION OF THE ROLE OF WATER RELATIONS IN THE VERTICAL ZONATION OF SPHAGNUM SPECIES (DEB-7810605 A02)*; 12 MONTHS $30,154

MADISON, DALE M; *THE ROLE OF SPACING BEHAVIOR IN THE REGULATION OF RODENT POPULATIONS (DEB-7822821 A02)*; 12 MONTHS $17,683

STATE UNIVERSITY AT STONY BROOK

KOEHN, RICHARD K; *BIOCHEMICAL, PHYSIOLOGICAL AND GENETIC ANALYSES OF ADAPTATION IN MYTILUS EDULIS (DEB-7908862 A02)*; 12 MONTHS $63,115

SOKAL, ROBERT R; *STABILITY OF NUMERICAL CLASSIFICATIONS (DEB-8003508)*; 12 MONTHS $45,799

BENTLEY, BARBARA L; *INTERACTIONS BETWEEN NITROGEN-FIXING MICROORGANISMS AND HIGHER PLANTS IN TROPICAL RAINFORESTS (DEB-8010676)*; 12 MONTHS $44,467

SOKAL, ROBERT R; *GEOGRAPHIC VARIATION IN PEMPHIGUS (DEB-8011131 A01)*; 12 MONTHS $57,000

LEVINTON, JEFFREY S; *MACROEVOLUTION: PATTERN AND PROCESS - A COLLOQUIUM (DEB-8017838)*; 6 MONTHS $7,000

EANES, WALTER F; *POPULATION AND BIOCHEMICAL GENETICS OF D. MELANOGASTER (DEB-8106930)*; 12 MONTHS $45,000

SYRACUSE UNIVERSITY

WOLF, LARRY L, AND HAINSWORTH, F REED; *ECOLOGY AND BEHAVIOR OF PLANT-POLLINATOR INTERACTIONS (DEB-7910799 A02)*; 12 MONTHS $60,911

MCNAUGHTON, SAM J; *INTERACTIVE PROCESSES IN A GRAZING ECOSYSTEM (DEB-7922991 A01)*; 12 MONTHS $256,821

WOLF, LARRY L; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8007723)*; 16 MONTHS $3,000

MCNAUGHTON, SAM J; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8021409)*; 24 MONTHS $8,000

STARMER, WILLIAM T; *A COLLABORATIVE RESEARCH ON THE YEAST FLORA ASSOCIATED WITH OPUNTIA CACTI (DEB-8108679)*; 12 MONTHS $47,000

WOLF, LARRY L; *DECISION MAKING IN A VARIABLE ENVIRONMENT: ALTERNATE STRATEGIES (DEB-8117758)*; 24 MONTHS $70,007

UNIVERSITY OF ROCHESTER

SELANDER, ROBERT K; *ECOLOGICAL POPULATION GENETICS (DEB-7823263 A02)*; 12 MONTHS $63,200

TEICHERT, CURT; *CAMBRIAN CEPHALOPODS OF CHINA (DEB-8020781*)*; 12 MONTHS $31,729

ISTOCK, CONRAD A; *THE ENERGETICS OF FITNESS CHARACTERS IN WYEOMYIA SMITHII (DEB-8020821)*; 18 MONTHS $62,000

NORTH CAROLINA

DUKE UNIVERSITY

STONE, DONALD E; *SYSTEMATIC STUDIES ON THE DIVERSIFICATION OF ANGIOSPERM POLLEN (DEB-7724612 A03)*; 12 MONTHS $42,222

STRAIN, BOYD R, AND HELLMERS, HENRY; *PLANT RESPONSES TO INCREASING GLOBAL CARBON DIOXIDE CONCENTRATION (DEB-7823640 A02)*; 12 MONTHS $159,260

STONE, DONALD E; *ADMINISTRATIVE SUPPORT, MAINTENANCE AND IMPROVEMENT OF LA SELVA FIELD STATION IN COSTA RICA (DEB-7904417 A02)*; 12 MONTHS $181,090

ANTONOVICS, JANIS, AND MEAGHER, THOMAS; *GENETIC PROCESSES IN A POPULATION OF CHAMAELIRIUM LUTEUM (DEB-7904737 A01)*; 2 MONTHS $8,835

WILBUR, HENRY M; *EXPERIMENTAL STUDIES OF AMPHIBIAN COMMUNITIES (DEB-7911539 A01)*; 12 MONTHS $38,031

LIVINGSTONE, DANIEL A; *DETAILED TROPICAL RECORDS OF GLOBAL CLIMATIC CHANGE (ATM-8003516 A02*)*; 12 MONTHS $75,000

SIMONS, ELWYN L; *SUPPORT FOR THE CENTER FOR THE STUDY OF PRIMATE BIOLOGY AND HISTORY (DEB-8003675 A01)*; 12 MONTHS $105,054

CARTMILL, MATT; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8011634)*; 15 MONTHS $4,790

RAUSHER, MARK D; *ECOLOGICAL AND EVOLUTIONARY INTERACTIONS IN A SIMPLE PLANTINSECT ASSOCIATION (DEB-8016414)*; 12 MONTHS $49,977

WHITE, RICHARD A; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8016635)*; 18 MONTHS $7,550

STRAIN, BOYD R, AND ANTONOVICS, JANIS; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8019503)*; 12 MONTHS $4,195

STRAIN, BOYD R; *CONTINUATION OF PHYTOTRON OPERATIONS (DEB-8021312)*; 12 MONTHS $170,000

MACPHEE, ROSS D; *BIOGEOGRAPHIC AND SYSTEMATIC STUDIES OF EXTINCT ANTILLEAN LAND MAMMALS (DEB-8021735*)*; 12 MONTHS $13,338

STRAIN, BOYD R; *CARBON EXCHANGE AND ALLOCATION IN PLANTS (DEB-8022165)*; 12 MONTHS $335,000

ANTONOVICS, JANIS; *THE ECOLOGICAL SIGNIFICANCE OF GENETICALLY VARIABLE PROGENY (DEB-8022369)*; 12 MONTHS $45,000

STRAIN, BOYD R; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8023220)*; 12 MONTHS $4,500

STRAIN, BOYD R; *PHYSIOLOGICAL ECOLOGY OF TREE SEEDLINGS OF A TROPICAL RAIN FOREST (DEB-8023345)*; 18 MONTHS $39,986

STONE, DONALD E; *CAPITAL IMPROVEMENTS AT LA SELVA FIELD STATION (DEB-8024887)*; 24 MONTHS $255,003

SCHLESINGER, WILLIAM H; *SOIL NUTRIENT TURNOVER IN A CHAPARRAL ECOSYSTEM (DEB-8040484 A01)*; 12 MONTHS $48,580

CHRISTENSEN, NORMAN L; *COLLABORATIVE RESEARCH ON SECONDARY FOREST SUCCESSION ON THE NORTH CAROLINA PIEDMONT (DEB-8102929)*; 24 MONTHS $39,764

BILLINGS, WILLIAM D; *ARCTIC TUNDRA: A SOURCE OR SINK FOR ATMOSPHERIC CARBON DIOXIDE IN A CHANGING ENVIRONMENT (DEB-8103490)*; 12 MONTHS $107,446

WHITE, RICHARD A; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8109909)*; 15 MONTHS $7,465

RAUSHER, MARK D; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8110218)*; 16 MONTHS $5,000

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

RABB, ROBERT L; *EFFECTS OF AGRO-ECOSYSTEM STRUCTURES ON THE POPULATION DYNAMICS OF SELECTED ARTHROPODS (DEB-7822738 A02)*; 12 MONTHS $210,872

TRIANTAPHYLLOU , A C; *CYTOLOGICAL STUDIES IN THE NEMATODE SUPERFAMILY HETERODEROIDEA (DEB-7917386 A01)*; 12 MONTHS $42,572

REAL, LESLIE; *RISK-SENSITIVE FORAGING AND POLLINATOR-PLANT INTERACTIONS (DEB-8020489)*; 24 MONTHS $36,926

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL-INSTITUTE OF MARINE SCIENCES

PAERL, HANS W; *ENVIRONMENTAL FACTORS CONTROLLING SCUM FORMATION IN BLOOMFORMING BLUE-GREEN ALGAE (DEB-8104689)*; 24 MONTHS $59,994

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

GENSEL, PATRICIA G; *EARLY AND MIDDLE DEVONIAN PLANTS (DEB-8011705 A01)*; 12 MONTHS $29,918

OLIVE, LINDSAY S; *ISOLATION AND INVESTIGATION OF SIMPLE MYCETOZOANS (DEB-8014045)*; 12 MONTHS $58,991

OLIVE, LINDSAY S; *ISOLATION AND INVESTIGATION OF SIMPLE MYCETOZOANS (DEB-8014045 A01)*; 12 MONTHS $58,680

DICKISON, WILLIAM C; *COMPARATIVE MORPHOLOGY AND SYSTEMATICS OF CUNONIACEAE (DEB-8025976)*; 30 MONTHS $49,565

PEET, ROBERT K; *COLLABORATIVE RESEARCH ON SECONDARY FOREST SUCCESSION ON THE NORTH CAROLINA PIEDMONT (DEB-8102775)*; 24 MONTHS $60,235

WHITE, JO ANN; *PERIODICAL CICADAS AND THEIR SPECIALIZED FUNGUS (DEB-8108251)*; 24 MONTHS $93,495

STIVEN, ALAN E; *ACQUISITION OF MICROCOMPUTERS FOR ECOLOGICAL RESEARCH (DEB-8111646)*; 12 MONTHS $32,564

UNIVERSITY OF NORTH CAROLINA AT GREENSBORO

LACEY, ELIZABETH P; *VARIATION IN REPRODUCTIVE AND DISPERSAL PATTERNS IN DAUCUS CAROTA (DEB-8012154)*; 24 MONTHS $40,000

SOLTIS, DOUGLAS E; *KARYOLOGICAL EVOLUTION AND RELATIONSHIPS IN TRIBE SAXIFRAGEAE (SAXIFRAGACEAE) (DEB-8109817)*; 24 MONTHS $55,981

UNIVERSITY OF NORTH CAROLINA AT WILMINGTON

ZULLO, VICTOR A; *CIRRIPEDIA OF THE CAROLINIAN PROVINCE (DEB-8020379)*; 12 MONTHS $4,703

WESTERN CAROLINA UNIVERSITY

COYLE, FREDERICK A; *SYSTEMATICS OF THE MYGALOMORPH GENUS EUAGRUS (DEB-8104682)*; 24 MONTHS $26,287

NORTH DAKOTA

NORTH DAKOTA STATE UNIVERSITY MAIN CAMPUS

ASHWORTH, ALLAN C; *QUATERNARY INSECT STUDIES (DEB-8023953)*; 24 MONTHS $60,015

UNIVERSITY OF NORTH DAKOTA MAIN CAMPUS

LIEBERMAN, DIANA, AND LIEBERMAN, MILTON; *TREE GROWTH RATES, AGE-SIZE RELATIONSHIPS, AND TROPICAL FOREST DYNAMICS (DEB-8117507)*; 12 MONTHS $49,829

OHIO

BOWLING GREEN STATE UNIVERSITY

WOODRUFF, RONNY C; *MAINTENANCE OF A DROSOPHILA MELANOGASTER STOCK CENTER (DEB-8005965 A02)*; 12 MONTHS $80,000

YOON, JONG SIK; *MECHANISMS OF CHROMOSOME EVOLUTION AND SPECIATION IN HAWAIIAN DROSOPHILA (DEB-8011552)*; 24 MONTHS $87,800

KENT STATE UNIVERSITY

FOOTE, BENJAMIN A; *BIOLOGY AND IMMATURE STAGES OF EPHYDRIDAE (DEB-7912242 A01)*; $9,385

KENYON COLLEGE

HEITHAUS, EARL R; *SEED PREDATION AND ANT-DISPERSAL MUTUALISM (DEB-8020916)*; 24 MONTHS $41,968

MIAMI UNIVERSITY CENTRAL OFFICE

POWELL, MARTHA J; *COMPARATIVE MITOSIS IN THE AQUATIC FUNGI CHYTRIDIOMYCETES (DEB-7810627 A01)*; 24 MONTHS $69,999

KAPUSTKA, LAWRENCE A; *ASYMBIOTIC DINITROGEN FIXATION (DEB-8004172 A01)*; 12 MONTHS $40,293

MATTOX, KARL R, AND STEWART, KENNETH D; *COMPARATIVE CYTOLOGICAL STUDIES IN THE GREEN ALGAE (DEB-8103489)*; 12 MONTHS $40,973

OBERLIN COLLEGE

BENZING, DAVID H; *EPIPHYTISM OF CANOPY-DWELLING BROMELIADS (DEB-8100100)*; 24 MONTHS $65,000

ZIMMERMAN, MICHAEL; *THE EFFECT OF RESOURCE ARRANGEMENT ON FORAGING BEHAVIOR (DEB-8101800)*; 18 MONTHS $30,000

OHIO STATE UNIVERSITY

GRUBB, THOMAS C; *OPTIMAL SOCIALITY (DEB-7821433 A02)*; 24 MONTHS $46,473

LUSTICK, SHELDON I; *THERMOREGULATORY SIGNIFICANCE OF PIGMENT INTENSITY IN AVIAN ADAPTATIONS (DEB-7911759 A01)*; $8,716

FLOYD, GARY L; *COMPARATIVE CYTOLOGY OF SELECTED CHLOROPHYTA (DEB-7911777 A01)*; 12 MONTHS $28,100

TAYLOR, THOMAS N; *ULTRASTRUCTURE OF FOSSIL POLLEN AND SPORES (DEB-8001803 A01)*; 12 MONTHS $50,445

DEAN, DONALD H; *MAINTENANCE OF THE BACILLUS GENETIC STOCK CENTER (DEB-8008986 A01)*; 12 MONTHS $47,375

CRAWFORD, DANIEL J; *COLLABORATIVE RESEARCH ON A MONOGRAPHIC STUDY OF THE GENUS COREOPSIS (COMPOSITAE) (DEB-8011655 A01)*; 12 MONTHS $31,948

COLINVAUX, PAUL A; *AMERICAN LAKES: COMPARATIVE AND PALEOLIMNOLOGICAL ANALYSES TO TEST HYPOTHESES (DEB-8021539)*; 12 MONTHS $75,000

MITTELBACH, GARY G; *PREDATOR-MEDIATED COMPETITION (DEB-8104697)*; 18 MONTHS $45,178

BERRA, TIM M; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8106931)*; 24 MONTHS $6,000

BIRKY, C W; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8108259)*; 24 MONTHS $5,700

TAYLOR, THOMAS N, AND STUBBLEFIELD, SARA P; *STUDIES OF PETRIFIED CARBONIFEROUS AGE FUNGI (DEB-8110213)*; 12 MONTHS $32,694

OHIO UNIVERSITY

ROTHWELL, GAR W; *ESTABLISHMENT OF A MULTIPURPOSE PHOTOMICROSCOPY LABORATORY AT OHIO UNIVERSITY (DEB-8109682)*; 12 MONTHS $42,421

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

FOX, STANLEY F; *THE ADAPTIVE SIGNIFICANCE OF TERRITORIALITY (DEB-8108899)*; 24 MONTHS $63,000

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS-BIOLOGICAL STATION

THRELKELD, STEPHEN T; *CLADOCERAN ZOOPLANKTON SUCCESSION (DEB-8022163)*; 12 MONTHS $55,000

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

SCHNELL, GARY D; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-7814193 A01)*; 11 MONTHS $697

SKVARLA, JOHN J; *POLLEN MORPHOLOGICAL STUDIES IN THE FAMILY ONAGRACEAE AND ORDER MYRTALES (DEB-8002585 A01)*; 12 MONTHS $24,915

MATTHEWS, WILLIAM J, AND HILL, LOREN G; *INFLUENCES OF PHYSICOCHEMICAL TOLERANCE ON THE ZOOGEOGRAPHIC AND LOCAL DISTRIBUTIONS OF FRESHWATER FISH (DEB-8023659)*; 12 MONTHS $28,000

COVICH, ALAN P; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8112460)*; 12 MONTHS $4,000

OREGON

OREGON STATE UNIVERSITY

TRAPPE, JAMES M, AND GORDON, JOHN C; *TEMPERATURE AND MOISTURE EFFECTS ON MYCORRHIZAE IN A DOUGLAS-FIR ECOSYSTEM (DEB-7824443 A02)*; 12 MONTHS $72,412

WARING, RICHARD H; *NITROGEN STRESS AND INSECT ATTACK IN LODGEPOLE PINE FORESTS (DEB-7904540 A01)*; $4,884

WARING, RICHARD H; *OPERATION OF THE H.J. ANDREWS EXPERIMENTAL FOREST AS A NATIONAL FIELD RESEARCH FACILITY (DEB-7925939 A01)*; 12 MONTHS $150,734

WARING, RICHARD H; *DYNAMICS OF ECOSYSTEM PROCESSES AT THE ANDREWS EXPERIMENTAL FOREST, OREGON (DEB-8012162 A01)*; 15 MONTHS $230,067

MENGE, BRUCE A; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8017449)*; 24 MONTHS $5,585

ANDERSON, NORMAN H; *UTILIZATION OF SMALL WOOD DEBRIS BY INVERTEBRATES IN STREAM SYSTEMS (DEB-8022190)*; 12 MONTHS $26,024

FRANKLIN, JERRY F; *LOGISTICAL SUPPORT OF ECOLOGICAL RESEARCH IN VICINITY OF MOUNT ST. HELENS (DEB-8024471 A01)*; 12 MONTHS $50,000

MILLER, JEFFREY O; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8103546)*; 24 MONTHS $3,200

ZOBEL, DONALD B; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8105191)*; 24 MONTHS $4,500

BAROSS, JOHN A; *NITROGEN CYCLE INTERACTIONS IN MT. ST. HELENS IMPACTED LAKES AND HOT WATER SEEPS (DEB-8111307)*; 24 MONTHS $230,000

UNIVERSITY OF OREGON - EUGENE

BRADSHAW, WILLIAM E; *BIOGEOGRAPHY OF THE PITCHER-PLANT MOSQUITO (DEB-7822799 A02)*; 12 MONTHS $32,000

PENNSYLVANIA

ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA

UZZELL, THOMAS M; *ESTIMATES OF AGES OF CLONAL VERTEBRATES BY STUDIES OF SERUM ALBUMIN AND OF MITOCHONDRIAL DNAS (DEB-7713472 A03)*; 6 MONTHS $4,816

VANNOTE, ROBIN L; *GEOGRAPHIC ANALYSIS OF THERMAL EQUILIBRIA (DEB-7818589 A02)*; 12 MONTHS $150,078

GILL, FRANK B; *PRESERVATION AND INCREASED AVAILABILITY OF A MAJOR ORNITHOLOGICAL COLLECTION (DEB-7818612 A02)*; 12 MONTHS $18,497

OTTE, DANIEL; *A COMPACTOR SYSTEM FOR ENTOMOLOGICAL COLLECTIONS (DEB-7910777 A02)*; 12 MONTHS $25,107

OTTE, DANIEL; *NORTH AMERICAN GRASSHOPPER SPECIES: A SYSTEMATIC GUIDE (DEB-7910778 A02)*; 12 MONTHS $33,415

BOTT, THOMAS L; *DISSOLVED ORGANIC MATTER UTILIZATION AND BACTERIAL PRODUCTIVITY IN A STREAM SYSTEM (DEB-7921963 A01)*; 12 MONTHS $73,991

BOTT, THOMAS L; *DISSOLVED ORGANIC MATTER UTILIZATION AND BACTERIAL PRODUCTIVITY IN A STREAM SYSTEM (DEB-7921963 A02)*; $6,739

DAVIS, GEORGE M; *CURATION, IMPROVEMENT AND SERVICE FUNCTIONS OF A MAJOR COLLECTION OF RECENT MOLLUSCA (DEB-8001822 A01)*; 12 MONTHS $40,893

BOHLKE, JAMES E; *SUPPORT OF THE ACADEMY'S FISH COLLECTION (DEB-8003205 A01)*; 12 MONTHS $45,986

GILL, FRANK B; *INTERSPECIFIC RESOURCE UTILIZATION IN HERMIT HUMMINGBIRDS (DEB-8019731)*; 24 MONTHS $35,335

GILL, FRANK B, AND OTTE, DANIEL; *PUBLICATION OF A MONOGRAPH 'THE AUSTRALIAN CRICKETS' BY OTTE AND ALEXANDER (DEB-8109602)*; 12 MONTHS $10,000

BRYN MAWR COLLEGE

SAUNDERS, W B; *PALEOBIOLOGY OF MIDDLE CARBONIFEROUS AMMONOIDS (DEB-8022340*)*; 36 MONTHS $56,621

SAUNDERS, W B; *GROWTH AND STATUS OF NAUTILUS IN ITS NATURAL HABITAT (EAR-8100629*)*; 24 MONTHS $15,000

CARNEGIE INSTITUTE

UTECH, FREDERICK H; *REORGANIZATION AND UPDATING OF THE VASCULAR PLANT COLLECTION OF CARNEGIE MUSEUM OF NATURAL HISTORY (DEB-8005268 A01)*; 12 MONTHS $40,000

EKIS, GINTER; *MODERNIZATION IN THE CARE AND USE OF THE ENTOMOLOGY SYSTEMATIC COLLECTIONS (DEB-8108957)*; 60 MONTHS $300,000

GENOWAYS, HUGH H; *REORGANIZATION OF THE RECENT MAMMAL COLLECTIONS OF CARNEGIE MUSEUM OF NATURAL HISTORY (DEB-8111553)*; 12 MONTHS $55,199

LAFAYETTE COLLEGE

CARUSO, JOHN H; *SYSTEMATICS AND DISTRIBUTION OF THE CHAUNACIDAE (DEB-8101971)*; 12 MONTHS $12,335

PENNSYLVANIA STATE UNIVERSITY-BEHREND COLLEGE

WICKEN, JEFFREY S; *A THERMODYNAMIC AND INFORMATION-THEORETICAL STUDY OF EVOLUTION (DEB-8014280)*; 21 MONTHS $19,294

PENNSYLVANIA STATE UNIVERSITY

PEARSON, DAVID L; *INSECT COMMUNITY STRUCTURE IN AMAZONIAN LOWLAND FOREST (DEB-8105196)*; 24 MONTHS $80,000

STEPHENSON, ANDREW G; *THE REGULATION OF FLOWER AND FRUIT NUMBER AND SEED QUALITY ON LOTUS CORNICULATUS L. (DEB-8105198)*; 24 MONTHS $35,143

UNIVERSITY OF PENNSYLVANIA

JANZEN, DANIEL H; *IMPACT OF HERBIVORY ON LOCAL DENSITY AND DISTRIBUTION OF DECIDUOUS FOREST TREES (DEB-8011558 A01)*; 12 MONTHS $84,803

RICKLEFS, ROBERT E; *ALLOCATION OF TIME AND ENERGY EXPENDITURES IN RELATION TO ECOLOGICAL, NUTRITIONAL AND METABOLIC REQUIREMENTS (DEB-8021732)*; 12 MONTHS $47,500

DAVIS, GEORGE M; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8023344)*; 12 MONTHS $4,294

DUNHAM, ARTHUR E; *LONG-TERM VARIATION IN LIFE HISTORY, DEMOGRAPHY AND ENERGY BUDGETS OF TWO IGUANID SPECIES (DEB-8104690)*; 12 MONTHS $34,000

RICKLEFS, ROBERT E, AND STEVENS, GEORGE; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8113409)*; 22 MONTHS $5,620

UNIVERSITY OF PITTSBURGH

RAIKOW, ROBERT J; *LIMB MUSCULATURE AND THE PHYLOGENY OF PASSERINES (DEB-7810715 A01)*; 36 MONTHS $62,398

RAIKOW, ROBERT J; *LIMB MUSCULATURE AND THE PHYLOGENY OF PASSERINES (DEB-7810715 A02)*; $8,355

RHODE ISLAND

BROWN UNIVERSITY

WAAGE, JONATHAN K; *BEHAVIORAL STRATEGIES IN GENETIC TRANSMISSION IN ODONATA (DEB-8004283 A01*)*; 12 MONTHS $13,561

MORSE, DOUGLASS H; *FORAGING ECOLOGY (DEB-8008502 A01)*; 12 MONTHS $41,667

UNIVERSITY OF RHODE ISLAND

SHEATH, ROBERT G; *SYSTEMATICS OF BANGIA (RHODOPHYTA) IN NORTH AMERICA (DEB-8011564)*; 24 MONTHS $71,079

SOUTH CAROLINA

CLEMSON UNIVERSITY

SCHINDLER, JAMES E; *BIOGEOCHEMISTRY OF AQUATIC ENVIRONMENTS: POPULATION RESPONSES AND FEEDBACK MECHANISMS (DEB-7824270 A01)*; 24 MONTHS $136,283

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

VERNBERG, F JOHN; *SUPPORT FOR BARUCH FIELD LABORATORY AS A NATIONAL RESEARCH FACILITY (DEB-8006375 A01)*; 12 MONTHS $65,000

VERNBERG, F JOHN; *ECOLOGICAL PATTERNS AND PROCESSES IN THE NORTH INLET ESTUARY, SOUTH CAROLINA (DEB-8012165 A01)*; 15 MONTHS $315,772

MORRIS, JAMES T; *THE EFFECT OF ADAPHIC FACTORS ON THE AMMONIUM UPTAKE KINETICS OF SPARTINA ALTERNIFLORA AND SPARTINA PATENS (DEB-8115503)*; 12 MONTHS $39,500

SOUTH DAKOTA

AUGUSTANA COLLEGE

TIESZEN, LARRY L; *ECOLOGICAL SIGNIFICANCE OF PHOTOSYNTHETIC SYSTEMS (DEB-7819552 A04)*; 12 MONTHS $38,725

TENNESSEE

EAST TENNESSEE STATE UNIVERSITY

JOHNSON, DAN M; *COLLABORATIVE RESEARCH ON THE COEXISTENCE OF LITTORAL ODONATA (DEB-8104425)*; 12 MONTHS $43,000

OAK RIDGE NATIONAL LABORATORY

SHUGART, H H; *EXTENDING SYSTEMS ANALYSIS IN ECOLOGY (DEB-8021024)*; 12 MONTHS $442,662

ELWOOD, J W, AND WINKLE, W V; *MATERIAL SPIRALLING IN STREAM ECOSYSTEMS (DEB-8103181)*; 12 MONTHS $283,678

EMANUEL, WILLIAM R, AND SOLOMON, ALLEN M; *TERRESTRIAL ECOSYSTEMS, CLIMATE, AND THE GLOBAL CARBON CYCLE (DEB-8115316)*; 12 MONTHS $451,310

UNIVERSITY OF TENNESSEE AT KNOXVILLE

WALNE, PATRICIA L; *BIOSYSTEMATICS OF EUGLENOID FLAGELLATES (DEB-7890210 A02)*; 12 MONTHS $38,927

RIECHERT, SUSAN E; *GENETIC AND EVOLUTIONARY EFFECTS OF COMPETITIVE INTERACTIONS (DEB-8002882 A01)*; 12 MONTHS $37,500

DELCOURT, PAUL A; *FOREST MAPPING ACROSS EASTERN NORTH AMERICA FROM 20,000-YEAR BP TO PRESENT (DEB-8004168 A01)*; 12 MONTHS $65,116

HICKOK, LESLIE G; *GENETIC VARIATION WITHIN POLYPLOIDY POPULATIONS (DEB-8014073)*; 24 MONTHS $40,000

RIECHERT, SUSAN E; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8103496)*; 24 MONTHS $4,520

VANDERBILT UNIVERSITY

EICKMEIER, WILLIAM G; *COMPARATIVE PHOTOSYNTHETIC RECOVERY IN POIKILOHYDRIC DESERT PLANTS (DEB-7920296)*; 24 MONTHS $49,668

MCCAULEY, DAVID E; *LIFE HISTORY OF POPULATIONS OF TETRAOPES TETRAOPHTHALMUS (DEB-8103510)*; 24 MONTHS $49,095

TEXAS

NORTH TEXAS STATE UNIVERSITY

STEWART, KENNETH W; *LARVAE OF NORTH AMERICAN STONEFLY GENERA (DEB-7812565 A03)*; 12 MONTHS $28,397

RICE UNIVERSITY

HARCOMBE, P A; *DEMOGRAPHIC ANALYSIS OF TREE POPULATIONS (DEB-7923150 A01)*; 12 MONTHS $43,042

SOUTHWEST TEXAS STATE UNIVERSITY

SCHNEIDER, EDWARD L; *COLLABORATIVE RESEARCH ON THE MORPHOLOGY OF THE NYMPHAEACEAE SENSU LATO (DEB-8102041)*; 24 MONTHS $44,996

TEXAS A & M UNIVERSITY

WILSON, HUGH D; *BIOSYSTEMATICS OF THE CHENOPODIUM QUINOA COMPLEX OF SOUTHERN SOUTH AMERICA (DEB-7823920 A01)*; $9,315

PRICE, H JAMES; *NUCLEAR DNA CONTENT VARIATION IN MICROSERIS DOUGLASII (DEB-8009427)*; 12 MONTHS $28,742

GOLD, JOHN R; *RESEARCH EQUIPMENT TO STUDY CHROMOSOME BANDING CYTOTAXONOMY IN NOTROPIS (DEB-8022173)*; 12 MONTHS $18,000

WILSON, HUGH D; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8109129)*; 24 MONTHS $3,999

TEXAS CHRISTIAN UNIVERSITY

FERGUSON, GARY W; *ADAPTATION TO SEASONAL FOOD SHORTAGE AND PREDATION IN SOME LOWER VERTEBRATES (DEB-7905123 A02)*; 12 MONTHS $28,434

TEXAS TECH UNIVERSITY

NORTHINGTON, DAVID K; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8103500)*; 24 MONTHS $3,770

UNIV OF TEXAS AT ARLINGTON

ROBINSON, JAMES V; *TESTING MICROSCOPIC COMMUNITY INVULNERABILITY TO INVASION (DEB-8010919)*; 24 MONTHS $33,773

BACON, JOHN D; *SYSTEMATICS OF NAMA (HYDROPHYLLACEAE) (DEB-8108513)*; 24 MONTHS $52,965

UNIV OF TEXAS AT AUSTIN

KITTO, G BARRIE, AND BUSH, GUY L; *A BIOCHEMICAL AND IMMUNOLOGICAL STUDY OF THE TEPHRITIDAE (DEB-7803145 A03)*; 12 MONTHS $52,419

LEVIN, DONALD A; *COLLABORATIVE STUDIES ON GENETIC POLYMORPHISMS AND NICHE WIDTH IN PHLOX (DEB-7823654 A02)*; 12 MONTHS $44,000

SZANISZLO, PAUL J; *SIDEROPHORE PRODUCTION BY MYCORRHIZAL FUNGI (DEB-7911276 A02)*; $8,526

SZANISZLO, PAUL J; *SIDEROPHORE PRODUCTION BY MYCORRHIZAL FUNGI (DEB-7911276 A03)*; 12 MONTHS $100,220

STARR, RICHARD C; *OPERATION OF A CULTURE COLLECTION OF ALGAE (DEB-7920695 A01)*; 12 MONTHS $59,437

TURNER, B L; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8008151)*; 24 MONTHS $3,843

SINGER, MICHAEL C; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8017667)*; 19 MONTHS $6,485

COLE, GARRY T; *EXPERIMENTAL-TAXONOMIC STUDIES OF COELOMYCETOUS FUNGI (DEB-8021536)*; 24 MONTHS $73,575

DELEVORYAS, THEODORE; *MESOZOIC SEED PLANTS (DEB-8021762)*; 36 MONTHS $61,642

TURNER, B L; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8023657)*; 18 MONTHS $3,906

MABRY, TOM J; *BIOCHEMICAL SYSTEMATICS OF THE COMPOSITAE (DEB-8102043)*; 12 MONTHS $46,787

GILBERT, LAWRENCE E; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8105172)*; 10 MONTHS $5,500

GILBERT, LAWRENCE E; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8106369)*; 19 MONTHS $3,300

UNIV OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON-UNIV OF TEXAS GRAD SCHOOL OF BIOMEDICAL SCI

NEI, MASATOSHI; *STATISTICAL STUDIES OF MOLECULAR VARIATION AND EVOLUTION (DEB-8110461);* 24 MONTHS $70,000

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

JAMESON, DAVID L; *MITOCHONDRIAL DNA AND AMPHIBIAN SYSTEMATICS (DEB-8020725);* 24 MONTHS $114,000

BRYANT, EDWIN H; *THE EFFECTS OF POPULATION BOTTLENECKS UPON GENETIC AND MORPHOMETRIC VARIATION (DEB-8108248*);* 12 MONTHS $40,190

UTAH

BRIGHAM YOUNG UNIVERSITY

WOOD, STEPHEN L; *THE BARK AND AMBROSIA BEETLES OF NORTH AND CENTRAL AMERICA (DEB-8105174);* 12 MONTHS $28,000

INSTITUTE OF ECOLOGY

LOUCKS, ORIE L, AND ARMENTANO, THOMAS V; *COORDINATED REVIEW OF RESEARCH VOLUMES IN THE U.S. IBP SERIES (DEB-8113639);* 36 MONTHS $57,340

UNIVERSITY OF UTAH

VICKERY, ROBERT K; *EVOLUTION OF THE MIMULUS GLABRATUS COMPLEX (DEB-7911554 A02);* 12 MONTHS $32,174

BAKER, WILLIAM K; *THE EVOLUTION OF A GENE DUPLICATION IN DROSOPHILA (DEB-7912336 A02);* 12 MONTHS $51,500

NEGUS, NORMAN C; *THE EFFECT OF MBOA ON POPULATION DYNAMICS OF MICROTUS MONTANUS (DEB-7921059 A01);* 12 MONTHS $40,356

DAVIDSON, DIANE W; *COLLABORATIVE RESEARCH ON AN EXPERIMENTAL ANALYSIS OF GRANIVORY IN A DESERT ECOSYSTEM (DEB-8021537);* 12 MONTHS $46,805

EHLERINGER, JAMES R; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8100659);* 24 MONTHS $4,300

EHLERINGER, JAMES R; *ECOPHYSIOLOGY AND ADAPTATION IN ENCELIA (DEB-8113136);* 12 MONTHS $68,001

UTAH STATE UNIVERSITY

CALDWELL, MARTYN M; *TOLERANCE OF HERBIVORY BY NATIVE AND EXOTIC BUNCHGRASS IN THE SAGEBRUSH/BUNCHGRASS ECOSYSTEM (DEB-7907323 A02);* 12 MONTHS $69,241

INNIS, GEORGE; *RECONSTRUCTION OF ECOSYSTEMS IN ARID LANDS (DEB-8101827*);* 12 MONTHS $407,212

BARKWORTH, MARY E; *A SYSTEMATIC STUDY OF STIPA IN NORTH AMERICA (DEB-8105437);* 36 MONTHS $60,015

VIRGINIA

COLLEGE OF WILLIAM AND MARY

SCOTT, JOSEPH L; *SYSTEMATICS OF THE RED ALGAE (DEB-7922205 A01);* 12 MONTHS $35,124

GEORGE MASON UNIVERSITY

LAWREY, JAMES D; *LICHEN-INVERTEBRATE CHEMICAL INTERACTIONS (DEB-8100354);* 24 MONTHS $45,000

RADFORD UNIVERSITY

KUGLER, R CHARLES; *SYSTEMATICS OF THE GENUS ROGERIA (HYMENOPTERA: FORMICIDAE) (DEB-8022177);* 24 MONTHS $29,387

UNIVERSITY OF VIRGINIA

CONNOR, EDWARD F; *INSECT POPULATION DYNAMICS AND COMMUNITY STRUCTURE OF LEAF-MINING INSECTS ON OAK (DEB-8021779);* 24 MONTHS $75,000

WOLFF, JERRY O, AND DUESER, R D; *MECHANISMS FOR COEXISTENCE IN SYNTOPIC POPULATIONS (DEB-8105177);* 12 MONTHS $37,008

ODUM, WILLIAM E; *CARBON EXCHANGE BETWEEN FRESHWATER AND MESOHALINE VEGETATED MARSHES AND THE ADJACENT WATER BODY (DEB-8109674);* 24 MONTHS $72,683

VIRGINIA POLYTECHNIC INSTITUTE

TURNER, BRUCE J; *EVOLUTIONARY GENETICS OF ILYODON (DEB-7923009 A01);* $10,000

JOHNSON, JOHN L; *RIBOSOMAL RNA HOMOLOGIES AMONG ANAEROBIC BACTERIA (DEB-8001191 A01);* 12 MONTHS $37,028

EATON, JOHN L; *QUANTITATIVE STUDIES OF NOCTUID MOTH MIGRATORY FLIGHT BEHAVIOR (DEB-8025844);* 36 MONTHS $100,607

PORTER, DUNCAN M; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8107032);* 12 MONTHS $4,507

WASHINGTON

UNIVERSITY OF WASHINGTON

KOHN, ALAN J; *ADAPTIVE DIFFERENTIATION, BIOLOGICAL RELATIONSHIPS AND SYSTEMATICS OF CONIDAE (DEB-7724430 A03);* 12 MONTHS $50,542

DEVOL, ALLAN H, AND RICHEY, JEFFREY E; *ALGAL BIOCHEMISTRY IN RELATION TO THE PHYSIOLOGICAL STATE OF PLANKTON (DEB-7811339 A01);* 6 MONTHS $24,799

HUEY, RAYMOND B; *PHYSIOLOGICAL ECOLOGY OF LOCOMOTION IN ECTOTHERMS (DEB-7812024 A03);* 24 MONTHS $70,079

SCHOENER, THOMAS W, AND SCHOENER, AMY; *SPECIES DIVERSITY AND ABUNDANCE IN INSULAR SYSTEMS (DEB-7822798 A02);* 12 MONTHS $37,883

COLE, DALE W; *ELEMENTAL LEACHING LOSSES IN FOREST SOILS (DEB-7824395 A02);* 12 MONTHS $116,085

SLATKIN, M W; *GENETICAL STRUCTURE OF SUBDIVIDED POPULATIONS (DEB-7827045 A02);* 12 MONTHS $29,075

EDMONDS, ROBERT L; *LITTER DECOMPOSITION IN DOUGLAS FIR ECOSYSTEMS (DEB-7901141 A02);* $14,724

EDMONDS, ROBERT L; *LITTER DECOMPOSITION IN DOUGLAS-FIR ECOSYSTEMS IN RELATIONS TO STAND AGE AND SITE QUALITY (DEB-7901141 A03);* 12 MONTHS $54,333

DEL MORAL, ROGER; *COMPETITION IN STABLE ALPINE PLANT COMMUNITIES (DEB-7905478 A01);* $3,028

LEOPOLD, ESTELLA B; *TEPHROCHRONOLOGY VEGETATION HISTORY AND RADIOCARBON DATING IN THE PUGET LOWLAND (DEB-7912341 A01);* $5,245

BRUBAKER, LINDA B; *CLIMATE AND FOREST PRODUCTIVITY CHANGES AT THE END OF THE LITTLE ICE AGE (DEB-7921643 A01);* 12 MONTHS $58,863

ZARET, THOMAS M; *ECOLOGY AND LIMNOLOGY OF VARZEA LAKES OF THE AMAZON (DEB-8003203 A01);* 12 MONTHS $162,738

GRIER, CHARLES C; *EFFECTS OF DETRITUS ACCUMULATION ON CARBON AND NUTRIENT FLOW IN SUBALPINE ABIES AMABILIS ECOSYSTEMS OF THE WASHINGTON CASCADES (DEB-8004445 A01);* $23,332

ORIANS, GORDON H; *EVOLUTIONARY INTERACTIONS AMONG PLANTS AND THEIR HERBIVORES (DEB-8005528 A01);* 12 MONTHS $99,995

KENAGY, GEORGE J; *ENERGETICS OF MAMMALIAN LIFE HISTORIES (DEB-8005906 A01);* 12 MONTHS $36,000

EDMONDSON, W T; *LAKE NUTRIENT STUDY (DEB-8009061 A01);* 12 MONTHS $115,354

BLISS, LAWRENCE C; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8009337);* 24 MONTHS $1,850

UGOLINI, FIORENZO C; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8012081);* 21 MONTHS $6,000

ORIANS, GORDON H; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8012545);* 20 MONTHS $5,000

SCHOENER, THOMAS W; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8018368);* 10 MONTHS $4,450

UGOLINI, FIORENZO C; *AN IN VIVO EXPERIMENT TO STUDY THE EFFECT OF AIR-FALL TEPHRA ON SOIL PROCESSES IN A PRISTINE ABIES AMABILIS FOREST (DEB-8022189);* 12 MONTHS $43,526

HINCKLEY, THOMAS M; *THE INFLUENCE OF SHOOT STRUCTURE ON NET PHOTOSYNTHESIS, WATER RELATIONS, LEAF AREA DEVELOPMENT AND PRODUCTIVITY IN CONIFERS (DEB-8100348);* 24 MONTHS $103,137

EDMONDSON, W T; *LAKE WASHINGTON PALEOLIMNOLOGY (DEB-8103507*);* 12 MONTHS $12,228

BLISS, LAWRENCE C, AND DEL MORAL, ROGER; *ECOSYSTEM DEVELOPMENT OF NEWLY PERTURBED SITES ON MOUNT ST. HELENS (DEB-8107042);* 12 MONTHS $249,995

LEOPOLD, ESTELLA B; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8107491);* 24 MONTHS $6,771

BLISS, LAWRENCE C; *THE ROLE OF VASCULAR PLANTS AND CRYPTOGAMS IN POLAR SEMI-DESERTS (DEB-8107520);* 12 MONTHS $31,699

GRAYSON, DONALD K; *AN ANALYSIS OF THREE ARCHAEOLOGICAL FAUNAS (BNS-8107548*);* 12 MONTHS $20,000

DENTON, MELINDA F; *DOCTORAL DISSERTATION RESEARCH IN SYSTEMATIC BIOLOGY (DEB-8108677);* 12 MONTHS $4,380

GARA, ROBERT I; *FIRE - INSECT - DISEASE RELATIONSHIPS OF A LODGEPOLE PINE ECOSYSTEM (DEB-8109813);* 12 MONTHS $54,000

LEOPOLD, ESTELLA B; *DOCTORAL DISSERTATION RESEARCH IN ECOLOGY (DEB-8110470);* 12 MONTHS $5,500

GRIER, CHARLES C; *EFFECTS OF MT. ST. HELENS TEPHRA ON BELOW-GROUND BIOLOGICAL PROCESSES IN ABIES AMABILIS ZONE FORESTS IN WASHINGTON (DEB-8111064);* 12 MONTHS $95,000

WASHINGTON STATE UNIVERSITY

KING, JAMES R; *AVIAN ECOLOGICAL ENERGETICS (DEB-7909806 A02);* 12 MONTHS $37,000

THOMPSON, JOHN N; *MODES OF HERBIVORY AND PATCH DYNAMICS IN COEVOLVING INSECTS AND PLANTS (DEB-7918492 A01);* $2,935

THOMPSON, JOHN N; *MODES OF HERBIVORY AND PATCH DYNAMICS IN COEVOLVING INSECTS AND PLANTS (DEB-7918492 A02);* 12 MONTHS $38,427

MACK, RICHARD N; *PLANT POPULATION BIOLOGY WITHIN STEPPE COMMUNITIES OF EASTERN WASHINGTON - ROLE OF ALIEN BROMES (DEB-8001518 A01);* 12 MONTHS $32,500

FRANZ, ELDON H; *PLANT/PARASITE INTERACTIONS (DEB-8011221);* 24 MONTHS $79,739

KENNEDY, ROBERT A; *STUDIES ON THE EFFECT OF MT. ST. HELENS ASH ON CROP PHYSIOLOGY AND GROWTH IN WASHINGTON STATE (DEB-8020160 A01);* 12 MONTHS $44,352

MACK, RICHARD N; *EFFECTS OF THE MOUNT ST. HELENS ASHFALL ON THE STEPPE VEGETATION OF EASTERN WASHINGTON (DEB-8022136);* 12 MONTHS $50,510

WILLIAMS, GEORGE J; *DOCTORAL DISSERTATION RESEARCH IN POPULATION BIOLOGY (DEB-8108523);* 24 MONTHS $2,999

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

NIECE, RONALD L; *MOLECULAR APPROACHES TO THE STUDY OF EVOLUTION (DEB-7814197 A02)*; 12 MONTHS $44,316

KEENEY, DENNIS R; *ROLE OF NITROUS OXIDE IN THE NITROGEN CYCLE OF NATURAL AND AGRICULTURAL ECOSYSTEMS (DEB-7817404 A01)*; 24 MONTHS $189,765

BROCK, THOMAS D; *DEVELOPMENT AND DISSIPATION OF BLUE-GREEN ALGAE IN FRESHWATER LAKES (DEB-7906030 A02*)*; 12 MONTHS $33,000

ATCHLEY, WILLIAM R; *QUANTITATIVE GENETIC ASPECTS OF HOLOMETABOLOUS DEVELOPMENT (DEB-7906058 A01)*; 6 MONTHS $10,365

MOERMOND, TIMOTHY C, AND DENSLOW, JULIE S; *FRUGIVORY AND SEED DISPERSAL MECHANISMS IN A TROPICAL RAINFOREST (DEB-7910991 A02)*; 6 MONTHS $2,710

MAGNUSON, JOHN J; *HABITAT, FISH COMMUNITY, AND RESOURCE UTILIZATION IN SMALL NORTHERN LAKES (DEB-7912337 A02)*; 12 MONTHS $60,399

SCRIBER, J M; *FOODPLANT UTILIZATION BY LEPIDOPTERA (DEB-7921749 A01)*; 12 MONTHS $50,000

ABER, JOHN D; *ORGANIC MATTER AND NITROGEN DYNAMICS IN FOREST ECOSYSTEMS (DEB-8005081 A02)*; 12 MONTHS $166,931

WALLER, DONALD M; *GROWTH AND REPRODUCTION IN RHUS GLABRA (DEB-8011127)*; 24 MONTHS $44,981

MAGNUSON, JOHN J, ANDERSON, MARY P, ARMSTRONG, DAVID, BOWSER, CARL J, AND RAGOTZKIE, ROBERT A; *COMPARATIVE STUDIES OF A SUITE OF LAKES IN WISCONSIN (DEB-8012313 A02)*; 15 MONTHS $291,363

ILTIS, HUGH H; *MORPHOLOGIC-SYSTEMATIC STUDIES IN THE FEMALE INFLORESCENCE OF CORN (ZEA MAYS) (DEB-8022772)*; 12 MONTHS $36,822

BALSANO, JOSEPH S; *ORIGIN AND PERPETUATION OF AN IDEAL EVOLUTIONARY SPECIES (DEB-8023277)*; 24 MONTHS $44,631

ATCHLEY, WILLIAM R; *QUANTITATIVE GENETIC ASPECTS OF GROWTH AND FORM (DEB-8109904)*; 12 MONTHS $72,867

KITCHELL, JENNIFER A; *COEVOLUTIONARY STUDIES OF PREDATOR-PREY INTERACTIONS (DEB-8109914*)*; 24 MONTHS $49,892

ANDREWS, JOHN H; *ISLAND BIOGEOGRAPHY AND THE MICROBIAL ECOLOGY OF LEAF SURFACES (DEB-8110199)*; 12 MONTHS $39,723

WYOMING

UNIVERSITY OF WYOMING

KNIGHT, DENNIS H; *WATER AND NUTRIENT LOSS FROM ROCKY MOUNTAIN FOREST ECOSYSTEMS (DEB-8011024 A01)*; 12 MONTHS $88,848

LILLEGRAVEN, JASON A; *LATE CRETACEOUS MAMMALIAN FAUNAS, BIGHORN BASIN, WYOMING (DEB-8105452)*; 12 MONTHS $30,000

SOCIAL AND ECONOMIC SCIENCE

ARIZONA

ARIZONA STATE UNIVERSITY

COX, STEVEN R, AND PULASKI, CHARLES A; *THE MARKET EFFECTS OF LAWYER ADVERTISING (SES-7917625 A02)*; $12,089

MAIENSCHEIN, JANE; *THE DEVELOPMENT OF EMBRYOLOGY IN AMERICA (SES-8025532)*; 24 MONTHS $5,350

BRAVER, SANFORD L, AND WILSON, LEONARD A; *COLLABORATIVE RESEARCH ON EXPERIMENTAL SOCIAL DILEMMA BEHAVIOR (SES-8108750)*; 12 MONTHS $49,529

UNIVERSITY OF ARIZONA

SMITH, VERNON L; *EXPERIMENTAL STUDIES OF RESOURCE ALLOCATION MECHANISMS (SES-8024312)*; 12 MONTHS $46,997

POLLOCK, JOHN L; *A THEORY OF DIRECT INFERENCE (SES-8107614)*; 12 MONTHS $5,000

GIBSON, LAY J, AND MULLIGAN, GORDON F; *ALTERNATIVE APPROACHES TO ESTIMATING CROSS-SECTIONAL AND LONGITUDINAL EMPLOYMENT MULTIPLIERS IN SMALL COMMUNITIES (SES-8112783)*; 12 MONTHS $37,323

ARKANSAS

UNIVERSITY OF ARKANSAS FAYETTEVILLE

SHAFFER, PAUL L; *COMPENSATION AND PRODUCTIVITY MEASURES IN THE PUBLIC SECTOR (SES-8016039)*; 12 MONTHS $30,000

CURINGTON, WILLIAM P; *RESEARCH INITIATION: THE IMPACT OF THE OCCUPATIONAL SAFETY AND HEALTH ACT ON THE SEVERITY OF WORKPLACE INJURIES (SES-8107436)*; 24 MONTHS $39,996

SCHWAB, WILLIAM A; *RESEARCH INITIATION: THE USE OF A MODEL OF NEIGHBORHOOD CHANGE TO PREDICT REVITALIZATION EFFORTS IN URBAN NEIGHBORHOOD AREAS (SES-8107795)*; 24 MONTHS $39,110

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

PLOTT, CHARLES R; *A LABORATORY EXPERIMENTAL INVESTIGATION OF INSTITUTIONAL INFLUENCES ON POLITICAL ECONOMIC PROCESSES (SES-7814508 A02)*; 12 MONTHS $112,404

FEREJOHN, JOHN A; *COLLABORATIVE RESEARCH IN SOCIAL CHOICE THEORY AND SIMPLE GAMES (SES-7824787 A01)*; 24 MONTHS $57,997

MCKELVEY, RICHARD D; *COLLABORATIVE RESEARCH ON A THEORETICAL AND EXPERIMENTAL ANALYSIS OF COMMITTEE COALITION PROCESSES (SES-7921588 A02*)*; 12 MONTHS $30,285

GRETHER, DAVID M; *INDIVIDUAL DECISION-MAKING UNDER UNCERTAINTY (SES-8003863*)*; 24 MONTHS $183,745

WILDE, LOUIS L, AND SCHWARTZ, ALAN; *INTERVENING IN MARKETS ON THE BASIS OF IMPERFECT INFORMATION: AN INFORMATION THEORETIC APPROACH (SES-8016066 A01*)*; $42,610

NOLL, ROGER G; *SOCIAL SCIENCE AND REGULATORY POLICY (SES-8022406)*; 12 MONTHS $94,630

REINGANUM, JENNIFER F; *EQUILIBRIUM DIFFUSION OF NEW TECHNOLOGY (SES-8025995)*; 24 MONTHS $63,939

CALIFORNIA STATE UNIVERSITY, CHICO

ECKALBAR, JOHN C; *THE STABILITY OF ECONOMIC MODELS WITH MONETARY CONSTRAINTS AND SPILLOVERS (SES-8017715)*; 12 MONTHS $34,883

CALIFORNIA STATE UNIVERSITY, FULLERTON

WEBER, BRUCE H; *HISTORICAL ANALYSIS OF THE DEVELOPMENT AND EVALUATION OF CHEMIOSMOTIC CONCEPTS IN BIOENERGETICS (SES-8109123)*; 12 MONTHS $5,000

CENTER FOR ADV STUDY IN THE BEHAVIORAL SCIENCE

LINDZEY, GARDNER, AND CUTLER, PRESTON S; *INTERDISCIPLINARY RESEARCH AT THE CENTER FOR ADVANCED STUDY IN THE BEHAVIORAL SCIENCES (BNS-7622943 A04*)*; 12 MONTHS $100,000

NATIONAL BUREAU OF ECONOMIC RESEARCH INC-NATIONAL BUREAU OF ECONOMIC RES INC-PALO ALTO

PENCAVEL, JOHN, AND MACURDY, THOMAS; *AN ANALYSIS OF TRADE UNION BEHAVIOR (SES-8023043)*; 12 MONTHS $75,018

MEDOFF, JAMES L; *CYCLICAL EMPLOYMENT ADJUSTMENT: TOWARD AN EMPIRICAL EXPLANATION (SES-8024719)*; 18 MONTHS $100,566

NAVAL POSTGRADUATE SCHOOL

BRUBAKER, EARL R; *DEMAND DISCLOSURES AND CONDITIONS ON EXCLUSION: AN EXPERIMENTAL INVESTIGATION (SES-8015517)*; 12 MONTHS $32,728

RAND CORPORATION

DERTOUZOS, JAMES N; *TRADE UNION OBJECTIVES, MARKET CONDITIONS AND WAGE DETERMINATION (SES-8012033)*; 15 MONTHS $57,829

SHAPLEY, LLOYD S; *GAME-THEORETIC APPROACHES TO THE THEORY OF ORGANIZATIONS (SES-8020061)*; 24 MONTHS $64,359

SMITH, JAMES P, AND LILLARD, LEE A; *STABILITY OF FAMILY INCOME INEQUALITY (SES-8023256*)*; 12 MONTHS $77,411

FELSTINER, WILLIAM L; *THEORY-BASED STUDY OF THE TRANSFORMATION OF CIVIL DISPUTES (SES-8110483)*; 24 MONTHS $93,807

STANFORD UNIVERSITY

AMEMIYA, TAKESHI; *PROPERTIES OF ESTIMATORS OF THREE WIDELY USED ECONOMETRIC MODELS (SES-7912965 A01)*; 12 MONTHS $61,024

ANDERSON, THEODORE W; *SIMULTANEOUS EQUATION MODELS-ESTIMATION, CONTROL, AND PREDICTION (SES-7913976 A01)*; 12 MONTHS $44,885

KURZ, MORDECAI; *POWER, INFORMATION, AND INCOME DISTRIBUTION - III (SES-8006654 A01)*; $222,463

EULAU, HEINZ; *NETWORK ANALYSIS OF REPRESENTATION (SES-8017766*)*; 12 MONTHS $101,130

KEOHANE, ROBERT O; *DOCTORAL DISSERTATION RESEARCH IN POLITICAL SCIENCE (SES-8021331)*; 12 MONTHS $8,140

TUMA, NANCY B; *METHODS FOR THE DYNAMIC ANALYSIS OF CHANGE IN CATEGORICAL VARIABLES (SES-8023542)*; 12 MONTHS $65,034

STARRETT, DAVID A; *EQUILIBRIUM THEORY AND WELFARE ECONOMICS IN THE PRESENCE OF NON-CONVEXITIES (SES-8023640)*; 24 MONTHS $65,415

EULAU, HEINZ; *DOCTORAL DISSERTATION RESEARCH IN POLITICAL SCIENCE (SES-8105708)*; 18 MONTHS $9,212

BARON, DAVID P; *THE DEMAND FOR REGULATORY AUTHORITY, POLICY INSTRUMENTS AND INFORMATION (SES-8106911*)*; 24 MONTHS $40,000

ROBERTS, DONALD J, AND WILSON, ROBERT B; *IMPERFECT COMPETITION, INFORMATION AND COMPETITIVE DYNAMICS: INDUSTRIAL ORGANIZATION AND GAME THEORY (SES-8108226)*; 24 MONTHS $72,419

HANNAN, MICHAEL T; *SELECTION AND COMPETITION IN THE LIFE CYCLES OF ORGANIZATIONS (SES-8109382)*; 24 MONTHS $79,957

MOE, TERRY M; *LONGITUDINAL ANALYSIS OF INDEPENDENT REGULATORY COMMISSIONS (SES-8121854)*; 18 MONTHS $29,029

UNIVERSITY OF CALIFORNIA, BERKELEY

HARSANYI, JOHN C; *GAME THEORY AND ITS ECONOMIC APPLICATIONS (SES-7706394 A02)*; 12 MONTHS $50,380

HANSEN, BENT; *EMPLOYMENT, UNEMPLOYMENT AND WAGE DETERMINATION IN POOR AGRARIAN ECONOMIES (SES-7804022 A02)*; 12 MONTHS $54,526

MAS-COLELL, ANDREU; *THE THEORY OF COMPETITION (SES-7809954 A01)*; 24 MONTHS $58,964

HEILBRON, JOHN L; *THE INSTITUTIONALIZATION OF PHYSICS (SES-7816565 A02)*; 12 MONTHS $23,670

DEBREU, GERARD; *MATHEMATICS OF EFFICIENT RESOURCE ALLOCATION (SES-7912380 A01)*; 12 MONTHS $25,014

HANSEN, BENT; *BRITISH IMPERIALISM AND ECONOMIC DEVELOPMENT IN EGYPT (SES-8006214)*; 14 MONTHS $91,881

WALKER, RICHARD A; *THE IMPACT OF TECHNOLOGICAL INNOVATION ON LABOR DEMAND AND INDUSTRIAL LOCATION (SES-8015533 A01)*; $5,126

OBERLANDER, THEODORE M; *USE OF ROCK VARNISH IN ANALYSIS OF PALEOENVIRONMENTS (SES-8024555*)*; 19 MONTHS $12,500

GILBERT, RICHARD J; *A QUALITATIVE CHOICE ANALYSIS OF TECHNOLOGY ADOPTION BY ELECTRIC UTILITIES (SES-8025389*)*; 12 MONTHS $64,212

HEILBRON, JOHN L; *INVENTORY OF SOURCES FOR HISTORY OF 20TH CENTURY PHYSICS (SES-8025988)*; 15 MONTHS $26,682

WILCOX, JAMES A; *RESEARCH INITIATION: ANTICIPATED AND UNANTICIPATED INFLATION AND THE REAL RATE OF RETURN IN EQUITIES: AN INTERNATIONAL COMPARISON (SES-8109093)*; 12 MONTHS $39,405

MESSINGER, SHELDON L, AND BERK, RICHARD A; *DETERMINANTS AND CONSEQUENCES OF PENAL SANCTIONS: LONG TERM TRENDS IN IMPRISONMENT (SES-8110251)*; 12 MONTHS $45,281

UNIVERSITY OF CALIFORNIA, DAVIS

ROTH, JULIUS; *DOCTORAL DISSERTATION RESEARCH IN LAW AND SOCIAL SCIENCES (SES-8107980)*; 12 MONTHS $4,900

UNIVERSITY OF CALIFORNIA, IRVINE

GROFMAN, BERNARD N; *THE DESIGN OF REAPPORTIONMENT SYSTEMS (SES-8107554)*; 24 MONTHS $49,970

HUFBAUER, KARL; *THE STELLAR-ENERGY PROBLEM, 1919-1939 (SES-8108922)*; 12 MONTHS $4,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

INTRILIGATOR, MICHAEL D; *COLLABORATIVE RESEARCH ON BEHAVIORAL AND ECONOMIC FOUNDATIONS OF ARMS RACES (SES-7727067 A02)*; 24 MONTHS $80,788

RILEY, JOHN G; *COMPETITION AND INFORMATIONAL ASYMMETRY (SES-8105891)*; 24 MONTHS $13,500

CLARK, WILLIAM A V; *A MULTI-ATTRIBUTE HOUSING DISEQUILIBRIUM MODEL OF RESIDENTIAL MOBILITY (SES-8109384)*; 18 MONTHS $65,820

ABEL, RICHARD L; *THEORY OF LEGAL REPRESENTATION IN SOCIETY (SES-8110380)*; 12 MONTHS $12,216

ZEITLIN, MAURICE; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY (SES-8110949)*; 18 MONTHS $4,375

UNIVERSITY OF CALIFORNIA, SAN DIEGO

CRAWFORD, VINCENT P; *ARBITRATION OF BARGAINING DISPUTES (SES-7905550 A02)*; 12 MONTHS $12,569

GRANGER, CLIVE W; *LONG-MEMORY RELATIONSHIPS BETWEEN ECONOMICS VARIABLES ARISING FROM THE AGGREGATION OF DYNAMIC MODELS (SES-8004414)*; 24 MONTHS $73,227

WHITE, HALBERT; *ESTIMATION, INFERENCE AND SPECIFICATION ANALYSIS (SES-8107552)*; 24 MONTHS $39,975

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

BIELBY, WILLIAM T, AND BARON, JAMES N; *JOBS, FIRMS, AND INDUSTRIES: ECONOMIC 'DUALISM' AND THE ORGANIZATION OF WORK (SES-7924905 A01*)*; 12 MONTHS $70,000

VOTEY, HAROLD L, AND SHAPIRO, PERRY; *LEGAL SANCTIONS AND DETERRENCE: IMPACTS ON DRIVING WHILE INTOXICATED (SES-8017719)*; 15 MONTHS $7,526

ANAGNOSON, J THEODOR; *RESEARCH INITIATION: THE EFFECTIVENESS OF EXTERNAL INTERVENTION ON THE FEDERAL BUREAUCRACY (SES-8107847)*; 24 MONTHS $39,487

WEATHERFORD, MICHAEL S; *COMPARATIVE RESEARCH ON ECONOMIC RECESSION AND ELECTORAL BEHAVIOR (SES-8107848)*; 15 MONTHS $31,532

GOLLEDGE, REGINALD G, AND TOBLER, WALDO R; *THE SPATIAL VARIATION IN THE DISTORTION AND FUZZINESS OF COGNITIVE MAPS (SES-8110253)*; 12 MONTHS $72,249

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

BURKE, EDMUND; *CONFERENCE ON GLOBAL CRISES AND SOCIAL MOVEMENTS, OCTOBER 22-24, 1981, SANTA CRUZ, CALIFORNIA (SES-8113412*)*; 12 MONTHS $12,883

UNIVERSITY OF SANTA CLARA

TANKE, ELIZABETH D; *RESEARCH INITIATION: USE OF PSYCHOLOGICAL RESEARCH BY THE COURTS (SES-8107791)*; 15 MONTHS $12,705

UNIVERSITY OF SOUTHERN CALIFORNIA

LASLETT, BARBARA; *DEMOGRAPHIC AND ECONOMIC DETERMINANTS OF FAMILY FORM AND FUNCTION (SES-7824409 A02)*; 12 MONTHS $10,367

WOLCH, JENNIFER R; *DEVELOPMENT OF A MODEL OF THE GHETTOIZATION PROCESS OF SERVICE-DEPENDENT POPULATIONS (SES-8022499)*; 24 MONTHS $26,546

COLORADO

UNIVERSITY OF COLORADO AT BOULDER

GREENBERG, EDWARD S; *THE EFFECTS OF WORKER SELF-MANAGEMENT: A PANEL ANALYSIS (SES-8110946)*; 24 MONTHS $39,333

CONNECTICUT

YALE UNIVERSITY

SCARF, HERBERT E; *INDIVISIBILITIES IN PRODUCTION (SES-7927127 A01)*; 12 MONTHS $42,262

CHAMLEY, CHRISTOPH; *THEORY OF TAXATION ON INCOMES OF LABOR AND CAPITAL AND ON CONSUMPTION (SES-8001934)*; 12 MONTHS $11,181

BOORMAN, SCOTT A; *MATHEMATICAL MODELS OF SOCIAL NETWORKS: MATCHING, EFFICIENCY AND STRUCTURE (SES-8004815 A01)*; 12 MONTHS $74,994

GORDON, ROBERT B, KOOPMANS, TJALLING C, NORDHAUS, WILLIAM B, AND SKINNER, BRIAN J; *AN INTERDISCIPLINARY STUDY OF MATERIALS MODELING (SES-8007171)*; 12 MONTHS $118,446

GOLDSMITH, RAYMOND W; *LONG-TERM FINANCIAL DEVELOPMENT OF BRAZIL (SES-8007614)*; 6 MONTHS $11,111

RUGGLES, RICHARD, AND RUGGLES, NANCY D; *DEVELOPMENT OF A RESEARCH DATA BASE: US MANUFACTURING ESTABLISHMENTS (SES-8011188 A01)*; 12 MONTHS $219,265

KINDER, DONALD R, AND IYENGAR, SHANTO; *AN INFORMATION-PROCESSING ANALYSIS OF MEDIA AGENDA-SETTING (SES-8019581 A01)*; $13,937

FAIR, RAY C; *ESTIMATION AND EVALUATION OF MACROECONOMETRIC MODELS (SES-8023346)*; 24 MONTHS $122,938

WEISS, LAURENCE, AND ROSS, STEPHEN A; *THE ECONOMICS OF UNCERTAINTY AND BUSINESS CYCLE THEORY (SES-8026587)*; 12 MONTHS $73,112

NORDHAUS, WILLIAM B; *ENERGY AND MACROECONOMIC THEORY (SES-8105867)*; 12 MONTHS $35,000

KEETON, WILLIAM R, AND KWEREL, EVAN R; *RESEARCH INITIATION: CROSS-SUBSIDIZATION AND THE REGULATION OF AUTOMOBILE INSURANCE (SES-8107437)*; 12 MONTHS $29,673

DELAWARE

UNIVERSITY OF DELAWARE

HARDING, SANDRA; *'OBJECTIVE INQUIRY' RECONSIDERED (SES-8110956)*; 18 MONTHS $5,000

DISTRICT OF COLUMBIA

ASSOCIATION OF AMERICAN GEOGRAPHERS

HOLZ, ROBERT K; *UTILIZATION OF NEW IMAGERY DATA FOR LAND COVER MAPPING AND MODELLING (SES-8119797)*; 17 MONTHS $31,000

BROOKINGS INSTITUTION

ABERBACH, JOEL D; *TRENDS AND PROCESSES IN LEGISLATIVE OVERSIGHT (SES-7816812 A01)*; $15,400

PERRY, GEORGE L; *THE BROOKINGS PANEL ON ECONOMIC ACTIVITY (SES-8009056 A01)*; $75,000

MINARIK, JOSEPH J, AND PECHMAN, JOSEPH A; *THE BROOKINGS TAX PROJECT ON MICRODATA FILES (SES-8008066*)*; 12 MONTHS $150,000

CRANDALL, ROBERT W, KEELER, THEODORE E, AND LAVE, LESTER B; *THE CONFLICTING GOALS OF REGULATIONS AFFECTING THE AUTOMOBILE - AN INTEGRATED ECONOMIC ANALYSIS (SES-8108931)*; 12 MONTHS $75,123

CATHOLIC UNIVERSITY OF AMERICA

WALLACE, WILLIAM A; *FOUNDATIONS OF MODERN SCIENCE (SES-7924835 A01)*; 12 MONTHS $9,097

DEPARTMENT OF COMMERCE

DUNCAN, JOSEPH W; *INTERAGENCY CONSORTIUM ON NATIONAL STATISTICS (SES-8017507 A01)*; 12 MONTHS $41,000

DUNCAN, JOSEPH W; *INTERAGENCY CONSORTIUM ON NATIONAL STATISTICS (SES-8017507 A02)*; $3,000

GEORGETOWN UNIVERSITY

RIDLEY, JEANNE C; *ROLE AND STATUS CHANGES AND FERTILITY (SES-8024558*)*; 24 MONTHS $20,000

NATIONAL ACADEMY OF SCIENCES

GOLDFIELD, EDWIN D; *STUDY OF SURVEY-BASED MEASURES OF SUBJECTIVE PHENOMENA (SES-7915317 A01)*; $25,658

GOSLIN, DAVID A; *COMMITTEE ON RESEARCH IN THE BEHAVIORAL AND SOCIAL SCIENCES (SES-7926467 A02*)*; 24 MONTHS $170,000

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

KELLY, WILLIAM C; *A STUDY OF RESEARCH - DOCTORATE PROGRAMS (PLN-7923858 A02*)*; $10,000

RESOURCES FOR THE FUTURE INC

PESKIN, HENRY M; *DEVELOPMENT OF ENVIRONMENTAL ASSET ACCOUNTS (SES-8013653)*; 12 MONTHS $149,430

KRUTILLA, JOHN V, AND WILMAN, ELIZABETH A; *VALUATION OF PUBLIC FOREST AND RANGE LAND RESOURCES (SES-8023852)*; 36 MONTHS $142,463

SOCIETY FOR RESEARCH IN CHILD DEVELOPMENT

SEARS, ROBERT R; *PRESERVATION OF HISTORICAL MATERIALS ON AMERICAN CHILD DEVELOPMENT SCIENCES, 1890 - 1945 (SES-8108238)*; 12 MONTHS $10,395

URBAN INSTITUTE

VROMAN, WAYNE; *UNION CONTRACT SETTLEMENTS, WAGE CHANGES AND INFLATION (SES-7800960 A02)*; 6 MONTHS $57,441

HULTEN, CHARLES R; *THE MEASUREMENT OF PUBLIC SECTOR PRODUCTIVITY (SES-8014967)*; 16 MONTHS $89,661

PETERSON, GEORGE E, AND HATRY, HARRY P; *IMPROVING LOCAL GOVERNMENT CAPITAL INFRASTRUCTURE PLANNING AND BUDGETING (SES-8016040)*; 24 MONTHS $147,514

SALAMON, LESTER; *THIRD PARTY GOVERNMENT AND THE TRANSFORMATION OF THE PUBLIC SECTOR: AN ANALYSIS OF THE CHANGING TECHNOLOGY OF PUBLIC ACTION (SES-8025539*)*; 18 MONTHS $153,232

FLORIDA

UNIVERSITY OF FLORIDA

MADDALA, G S; *ECONOMETRIC ANALYSIS OF EXPECTATIONS BASED ON MICRO DATA (SES-8021103)*; 12 MONTHS $55,055

THEIL, HENRI; *THEORETICAL AND APPLIED ECONOMETRICS (SES-8023555)*; 12 MONTHS $30,149

PAUL, HARRY W; *SCIENCE IN MODERN FRANCE (SES-8106214)*; 12 MONTHS $5,000

GEORGIA

ATLANTA UNIVERSITY

ATTAH, E B; *RESEARCH INITIATION: PERSPECTIVES ON MIGRATION AND URBANIZATION POLICY (SES-8107783)*; 18 MONTHS $40,000

UNIVERSITY OF GEORGIA

BECK JR., ELWOOD M; *URBAN WAGES AND EMPLOYMENT: A LABOR MARKET APPROACH (SES-8025390)*; 12 MONTHS $18,461

HAWAII

UNIVERSITY OF HAWAII-MANOA

MILNER, NEAL; *THEORY-BASED STUDY OF THE EMERGENCE OF RIGHTS (SES-8026590)*; 20 MONTHS $89,874

MURTON, BRIAN J; *DOCTORAL DISSERTATION RESEARCH IN GEOGRAPHY & REGIONAL SCIENCE (SES-8104595)*; 12 MONTHS $2,642

ILLINOIS

EAST ASIAN HISTORY OF SCIENCES INC

NEEDHAM, JOSEPH, AND GWEI-DJEN, LU; *SCIENCE AND CIVILIZATION IN CHINA (SES-7906589 A02)*; 12 MONTHS $40,000

LAKE FOREST COLLEGE

PACKEL, EDWARD W; *COLLABORATIVE RESEARCH IN SOCIAL CHOICE THEORY AND SIMPLE GAMES (SES-7907366 A01)*; 24 MONTHS $32,887

NATIONAL OPINION RESEARCH CENTER

DAVIS, JAMES A; *THE NORC GENERAL SOCIAL SURVEY FOR 1978, 1980 AND 1982 (SES-7703279 A03*)*; 12 MONTHS $110,713

ROSEN, SHERWIN; *INCENTIVE COMPENSATION SYSTEMS (SES-8006636 A01)*; 12 MONTHS $37,033

MICHAEL, ROBERT T, AND BECKER, GARY S; *ECONOMIC ANALYSIS OF THE FAMILY (SES-8012187 A01)*; 12 MONTHS $50,598

SMITH, A WADE; *ADDITION OF A BLACK SUBSAMPLE TO THE GENERAL SOCIAL SURVEY (SES-8023396)*; 24 MONTHS $117,516

LEVINE, DANIEL B; *STRUCTURAL DYNAMIC MODELS (SES-8107963)*; 24 MONTHS $66,882

NORTHWESTERN UNIVERSITY

REITER, STANLEY; *INFORMATION AND INCENTIVES IN RESOURCE ALLOCATION (SES-7715793 A02)*; 12 MONTHS $77,147

BORUCH, ROBERT F; *METHODOLOGICAL AND POLICY ISSUES: SOCIAL EXPERIMENTS FOR PLANNING AND EVALUATION (SES-7820374 A01*)*; 12 MONTHS $78,498

BEWLEY, TRUMAN F; *GENERAL EQUILIBRIUM THEORY IN A STATIONARY STOCHASTIC ENVIRONMENT AND WITH IMPERFECT MARKETS (SES-7906672 A01)*; 24 MONTHS $39,179

HASTIE, REID, AND PENNINGTON, NANCY; *CIVIL JUSTICE: A THEORY-BASED ANALYSIS OF JUROR AND JURY PERFORMANCE (SES-8012002*)*; 24 MONTHS $58,741

NERLOVE, MARC L; *MULTIVARIATE LOG-LINEAR PROBABILITY MODELS IN ECONOMETRICS (SES-8023648)*; 12 MONTHS $59,638

SCHRODT, PHILIP A; *COLLABORATIVE RESEARCH ON MODELING INTERNATIONAL INTERACTIONS (SES-8025053)*; 24 MONTHS $56,956

HOLMSTROM, BENGT R; *DYNAMIC MODELS OF EMPLOYMENT (SES-8106876)*; 24 MONTHS $33,584

LEDYARD, JOHN O; *MARKET DYNAMICS, ELECTION EQUILIBRIA, AND PUBLIC GOOD AUCTIONS (SES-8106896*)*; 24 MONTHS $47,997

BECKER, HOWARD S; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY (SES-8106903)*; 12 MONTHS $4,967

MATTHEWS, STEVEN A; *RISK AVERSION, DIFFERENTIAL INFORMATION, AND LEARNING IN OLIGOPOLIES (SES-8107103)*; 24 MONTHS $13,610

KOPPELMAN, FRANK S; *COLLABORATIVE RESEARCH ON SPATIAL-TEMPORAL CHARACTERISTICS OF PERSON TRAVEL BEHAVIOR (SES-8112495)*; 22 MONTHS $14,782

UNIVERSITY OF CHICAGO

HABERMAN, SHELBY J, AND GOODMAN, LEO A; *STATISTICAL METHODOLOGY IN THE SOCIAL SCIENCES (SES-7680389 A05)*; 12 MONTHS $202,905

LUCAS, ROBERT E; *COLLABORATIVE RESEARCH IN BUSINESS CYCLE AND STABILIZATION THEORY (SES-7816543 A02)*; 12 MONTHS $62,062

TOLLEY, GEORGE S; *ECONOMICS OF LOCATION OF PRODUCTION AND POPULATION (SES-7825776 A01*)*; 12 MONTHS $52,976

TOLLEY, GEORGE S; *ECONOMICS OF LOCATION OF PRODUCTION AND POPULATION (SES-7825776 A02)*; 12 MONTHS $69,452

GALENSON, DAVID W; *A CONFERENCE ON THE APPLICATION OF ECONOMICS TO HISTORY (SES-7900277 A02)*; $20,159

STRODTBECK, FRED L; *JURY DELIBERATIONS AS INFLUENCED BY RELEVANT CASE FEATURES (SES-7910982 A01)*; 6 MONTHS $10,246

ZELLNER, ARNOLD; *BAYESIAN INFERENCE AND MODELING TECHNIQUES IN ECONOMETRICS (SES-7913414 A01)*; 12 MONTHS $64,191

HIRSCH, PAUL M, AND WHISLER, THOMAS L; *STRATEGIES OF CORPORATE BOARD BEHAVIOR (SES-7916536 A02)*; 12 MONTHS $59,999

SCHEINKMAN, JOSE; *OPTIMAL GROWTH THEORY (SES-7926726 A01)*; 12 MONTHS $46,762

DEBUS, ALLEN G; *THE EMERGENCE OF MODERN CHEMISTRY (SES-8008919 A01)*; 12 MONTHS $4,000

LAUMANN, EDWARD O; *THE SOCIAL ORGANIZATION OF NATIONAL POLICY DOMAINS (SES-8015529)*; 12 MONTHS $89,960

CONZEN, MICHAEL P; *A MODEL OF THE RELATION BETWEEN PAST LOCATIONAL DECISIONS AND EVOLVING URBAN SPATIAL STRUCTURE (SES-8025063)*; 12 MONTHS $24,979

RICHARDS, ROBERT J; *THE EMERGENCE OF EVOLUTIONARY THEORIES OF MIND AND BEHAVIOR (SES-8025064)*; 18 MONTHS $5,000

FAMA, EUGENE F; *THE MICROECONOMICS AND MACROECONOMICS OF FINANCE (SES-8105186)*; 24 MONTHS $65,930

PREWITT, KENNETH; *DOCTORAL DISSERTATION RESEARCH IN POLITICAL SCIENCE (SES-8114607)*; 12 MONTHS $2,300

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

VILLEMEZ, WAYNE J, AND BRIDGES, WILLIAM P; *JOBS AND WORKERS IN A METROPOLITAN LABOR MARKET (SES-8012117)*; 12 MONTHS $231,014

SCHWARTZ, MILDRED A; *INTEGRATION AND AMBIGUITY IN STATE POLITICAL PARTY ORGANIZATIONS (SES-8013455)*; 18 MONTHS $65,650

PERSKY, JOSEPH; *REGIONAL CONVERGENCE AND MEASURES OF NATIONAL INCOME INEQUALITY (SES-8106955)*; 12 MONTHS $7,792

TELLER, PAUL R; *CRITICAL EXAMINATION OF THE PROJECTION POSTULATE OF QUANTUM MECHANICS (SES-8108175)*; 12 MONTHS $4,956

UNIVERSITY OF ILLINOIS AT URBANA

FERBER, ROBERT; *CONSUMER FINANCIAL BEHAVIOR (SES-7815121 A03)*; $80,154

JUDGE, GEORGE G, AND YANCEY, THOMAS A; *IMPROVED METHODS OF ESTIMATION AND MODEL EVALUATION IN ECONOMETRICS (SES-8010987)*; 24 MONTHS $109,644

NEWBOLD, PAUL; *MULTIPLE TIME SERIES MODEL BUILDING (SES-8011175)*; 24 MONTHS $67,290

LAND, KENNETH C; *CONFERENCE ON MULTIDIMENSIONAL MATHEMATICAL DEMOGRAPHY, SPRING 1981, WASHINGTON D. C. (SES-8016789)*; 12 MONTHS $28,726

KLUEGEL, JAMES R; *AMERICANS' BELIEFS ABOUT INEQUALITY (SES-8016995 A01)*; 12 MONTHS $33,986

ZINNES, DINA A; *COLLABORATIVE RESEARCH ON MODELING INTERNATIONAL INTERACTIONS (SES-8024547)*; 24 MONTHS $75,127

SOLBERG, WINTON U; *AMERICAN SCIENCE AT ITS ROOTS: COTTON MATHER'S CHRISTIAN PHILOSOPHER (SES-8025584)*; 12 MONTHS $4,704

HUFF, JAMES O; *COLLABORATIVE RESEARCH ON SYSTEMATIC VARIABILITY IN DAILY TRAVEL BEHAVIOR (SES-8105892)*; 12 MONTHS $20,216

MIRMAN, LEONARD J; *GAME THEORETIC APPLICATIONS TO THE ECONOMICS OF PRICING AND INFORMATION (SES-8106207)*; 24 MONTHS $53,000

BROWN, MARILYN A; *THE GEOGRAPHIC DIFFUSION OF RESIDENTIAL ENERGY CONSERVATION MEASURES IN AN URBAN AREA (SES-8112007)*; 12 MONTHS $34,525

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

GRANT, EDWARD; *SCIENTIFIC INERTIA: A STUDY OF RESISTANCE TO THEORETICAL CHANGE IN THE HISTORY OF COSMOLOGY (SES-7925729 A01)*; 12 MONTHS $15,312

WILLIAMS, ARLINGTON W; *COMPUTERIZED EXPERIMENTATION WITH COMPETITIVE MARKET ENVIRONMENTS (SES-8025553)*; 12 MONTHS $35,660

GRIFFIN, LARRY J; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY (SES-8101119)*; 12 MONTHS $2,039

OSTROM, ELINOR; *DOCTORAL DISSERTATION RESEARCH IN POLITICAL SCIENCE (SES-8104773)*; 12 MONTHS $4,565

CHURCHILL, FREDERICK B; *DOCTORAL DISSERTATION RESEARCH IN HISTORY AND PHILOSOPHY OF SCIENCE (SES-8110941)*; 6 MONTHS $1,675

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS

MOORE, EDWARD C, AND FISCH, MAX; *AN EDITION OF THE WRITINGS OF CHARLES S. PEIRCE (SES-7900897 A02)*; 22 MONTHS $35,277

WEINSCHROTT, DAVID J; *RESEARCH INITIATION: COMPLEMENTARITY AND SUBSTITUTION IN HOSPITAL SERVICES: IMPLICATIONS FOR COST CONTAINMENT (SES-8107250)*; 22 MONTHS $39,996

RUBIN, BARRY M; *RESEARCH INITIATION: METHODOLOGICAL DEVELOPMENT FOR THE EVALUATION OF ECONOMIC, DEMOGRAPHIC*

AND FISCAL IMPACTS OF SYNTHETIC OIL AND GAS PROJECTS (SES-8107355); 17 MONTHS $39,955

UNIVERSITY OF NOTRE DAME

MANIER, EDWARD; *A COMPARATIVE HISTORY OF SELECT RESEARCH AREAS IN CELLULAR NEUROPHYSIOLOGY, 1959 TO THE PRESENT (SES-8109286);* 12 MONTHS $5,000

HUCKFELDT, ROBERT; *POLITICAL ASSIMILATION AND CONFLICT IN URBAN CONTEXTS (SES-8118597);* 6 MONTHS $14,434

IOWA

UNIVERSITY OF IOWA

MCNULTY, MICHAEL L, AND RUSHTON, GERARD; *A COMPARATIVE ANALYSIS OF THE LOCATIONAL EFFICIENCY OF RURAL SERVICE DELIVERY SYSTEMS (SES-7925069 A02);* $2,913

ICHIISHI, TATSURO; *GAME THEORY IN ECONOMIC MODELS (SES-8019043 A01);* $25,824

MCCLOSKEY, DONALD N; *A CONFERENCE ON THE APPLICATION OF ECONOMICS HISTORY; UNIVERSITY OF IOWA; APRIL 30 - MAY 2, 1981 (SES-8041016);* 12 MONTHS $23,334

LOEWENBERG, GERHARD; *CONFERENCE ON LEGISLATIVE RESEARCH, IOWA CITY, IA. SEPTEMBER 1982 (SES-8106898);* 24 MONTHS $32,000

KANSAS

UNIVERSITY OF KANSAS MAIN CAMPUS

DENDRINOS, DIMITRIOS S; *WORKSHOP ON: DYNAMIC NONLINEAR SYSTEMS THEORY IN GENERAL URBAN/REGIONAL SYSTEMS (SES-8026730*);* 8 MONTHS $8,914

NAGEL, JOANE; *THE POLITICAL CONSTRUCTION OF ETHNICITY: AMERICAN INDIAN MOBILIZATION (SES-8108314*);* 24 MONTHS $59,755

KLEINER, MORRIS; *OCCUPATION LICENSING AND THE ALLOCATION OF HUMAN RESOURCES: A TIME-SERIES ANALYSIS (SES-8112788);* 12 MONTHS $14,336

KENTUCKY

UNIVERSITY OF KENTUCKY

JEWELL, MALCOLM E; *STATE GUBERNATORIAL PRIMARIES (SES-8105701);* 24 MONTHS $75,000

BRETSCHNEIDER, STUART I; *RESEARCH INITIATION: NON-STATIONARY TOLERANCE INTERVAL EVALUATION OF AMBIENT AIR STANDARDS (SES-8106943);* 14 MONTHS $39,718

EASTWOOD, BRUCE S; *PATTERNS FOR THE PLANETS: THE CONCEPTUAL ROLE OF DIAGRAMS IN THE DEVELOPMENT OF ASTRONOMY (SES-8107613);* 12 MONTHS $5,000

LOUISIANA

TULANE UNIVERSITY

BRITO, DAGOBERT L; *COLLABORATIVE RESEARCH ON BEHAVIORAL AND ECONOMIC FOUNDATIONS OF ARMS RACES (SES-8024884);* 24 MONTHS $64,372

HORIBA, YUTAKA; *FOUNDATIONS OF REGIONAL COMPARATIVE ADVANTAGE (SES-8109662);* 18 MONTHS $34,941

MAINE

UNIVERSITY OF MAINE, ORONO

PEASE, JANE H, AND PEASE, WILLIAM H; *COMPARATIVE URBAN SOCIAL STRUCTURE AND SOCIAL CHANGE: BOSTON MASSACHUSETTS AND CHARLESTON, SOUTH CAROLINA (SES-8023796);* 12 MONTHS $15,063

MARYLAND

JOHNS HOPKINS UNIVERSITY

TRUESDELL, CLIFFORD A; *INTELLECTUAL FOUNDATIONS OF THE SCIENCE OF HYDROSTATICS AND HYDRODYNAMICS (SES-7727402 A01);* 36 MONTHS $39,000

ACHINSTEIN, PETER; *THE NATURE OF EXPLANATION (SES-7824401 A01);* 24 MONTHS $41,663

CHASE-DUNN, CHRISTOPH; *WORLD DIVISION OF LABOR AND THE DEVELOPMENT OF CITY SYSTEMS: A LONGITUDINAL CROSS-NATIONAL STUDY (SES-7825071 A02);* 12 MONTHS $15,994

CHRIST, CARL F; *DYNAMIC ANALYSIS OF THE EFFECTS OF MONETARY, FISCAL AND EXCHANGE RATE POLICY UPON REAL INCOME (SES-8014260);* 24 MONTHS $92,267

UNIVERSITY OF MARYLAND, COLLEGE PARK

MC GUIRE, MARTIN C; *ECONOMIC THEORY OF JURISDICTION FORMATION WITH GROUP HETEROGENEITY (SES-8014238*);* 18 MONTHS $51,503

OATES, WALLACE E; *THE DESIGN AND IMPLEMENTATION OF MARKET INCENTIVES FOR ENVIRONMENTAL PROTECTION (SES-8022561);* 8 MONTHS $29,769

STICH, STEPHEN P; *THE USE OF FOLK PSYCHOLOGICAL CONCEPTS IN COGNITIVE SCIENCE (SES-8107713);* 14 MONTHS $25,000

MASSACHUSETTS

AMERICAN ACADEMY OF ARTS AND SCIENCES (AAAS)

ROSSITER, MARGARET W; *HISTORY OF WOMEN SCIENTISTS IN THE UNITED STATES, 1940-1980 (SES-7907562 A01);* 18 MONTHS $48,000

BOSTON UNIVERSITY

SHIMONY, ABNER E; *SCIENTIFIC METHODOLOGY (SES-8104577);* 12 MONTHS $12,000

SAMARAWEERA, VIJAYA; *LANGUAGE IN THE LEGAL PROCESS (SES-8110481);* 12 MONTHS $40,894

BRANDEIS UNIVERSITY

FILER, RANDALL K; *RESEARCH INITIATION: THE INFLUENCE OF NONPECUNIARY COMPENSATION ON LABOR SUPPLY (SES-8107430);* 18 MONTHS $40,000

CLARK UNIVERSITY

HANSON, SUSAN E, AND HUFF, JAMES O; *COLLABORATIVE RESEARCH ON THE SYSTEMATIC VARIABILITY IN DAILY TRAVEL BEHAVIOR (SES-8119318);* 24 MONTHS $26,600

DATA RESOURCES INC

CHRISTENSEN, LAURITS R; *AN ASSESSMENT OF POTENTIAL COST SAVINGS ASSOCIATED WITH STRUCTURAL CHANGES IN THE U.S. RAILROAD INDUSTRY (SES-8025316);* 18 MONTHS $104,441

HARBRIDGE HOUSE INC

CRANGLE, ROBERT D; *APPLIED RESEARCH ON THE BENEFITS AND COSTS OF PUBLIC REGULATION OF THE COPPER WIRE INDUSTRY (DFA-7719752 A04);* 12 MONTHS $28,500

HARVARD UNIVERSITY

GRILICHES, ZVI; *ECONOMETRIC STUDIES OF HUMAN RESOURCES AND TECHNOLOGICAL CHANGE (SES-7804279 A04*);* 12 MONTHS $76,221

SABRA, A I; *THE DEVELOPMENT OF OPTICS AS A SCIENCE (SES-7809003 A02);* 12 MONTHS $21,851

SPENCE, A MICHAEL; *INDUSTRY DYNAMICS (SES-7821016 A02);* 12 MONTHS $28,444

HIBBS, DOUGLAS A; *COMPARATIVE STUDIES IN POLITICAL ECONOMY (SES-7837022 A02*);* 12 MONTHS $82,277

PUTNAM, ROBERT D; *THE DEVELOPMENT OF REPRESENTATIVE POLITICAL INSTITUTIONS: THE CASE OF REGIONAL GOVERNMENT (SES-7920004 A01);* 24 MONTHS $98,886

WHITE, HARRISON C, AND BREIGER, RONALD L; *MARKETS & ORGANIZATIONS: APPLYING MATHEMATICAL MODELS TO SOCIAL STRUCTURES & PROCESSES (SES-8008658 A01);* 12 MONTHS $74,914

JORGENSON, DALE W; *ENERGY AND ECONOMIC GROWTH IN THE UNITED STATES AND JAPAN (SES-8008824 A01);* 12 MONTHS $79,877

BLACK, DONALD; *THE INFLUENCE OF SOCIAL STRUCTURE ON SANCTIONS (SES-8011034 A01);* 12 MONTHS $45,770

ERICSON, RICHARD E; *PLAN IMPLEMENTATION AND ECONOMIC PERFORMANCE IN A COMMAND ECONOMY (SES-8014296);* 24 MONTHS $57,542

MOSTELLER, FREDERICK; *BASIC AND APPLIED STUDIES OF SOCIAL STATISTICAL METHODS (SES-8023644*);* 12 MONTHS $94,125

GREEN, JERRY R; *PROBLEMS RELATED TO THE ROBUSTNESS OF ECONOMIC MODELS (SES-8106912);* 24 MONTHS $17,294

ROSENKRANTZ, BARBARA G; *DOCTORAL DISSERTATION RESEARCH IN HISTORY AND PHILOSOPHY OF SCIENCE (SES-8107609);* 12 MONTHS $3,673

HURON INSTITUTE INC

KARABEL, JEROME, AND USEEM, MICHAEL; *HIGHER EDUCATION, CLASS STRUCTURE, AND THE LABOR MARKET (SES-8025542);* 12 MONTHS $48,412

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

KUH, EDWIN, AND WELSCH, ROY E; *THE RELIABILITY OF ECONOMIC MODELS (MCS-7726902 A05*);* 12 MONTHS $100,000

PINDYCK, ROBERT S; *THE EXPLORATION AND PRODUCTION OF NATURAL RESOURCES (SES-8012667);* 24 MONTHS $137,127

TEMIN, PETER; *CROP CHOICE IN POSTBELLUM SOUTHERN AGRICULTURE (SES-8013444);* 12 MONTHS $45,731

MCFADDEN, DANIEL L, AND HAUSMAN, JERRY A; *MICROECONOMICS AND ECONOMETRICS FOR USE OF HOUSEHOLD DATA IN STUDIES OF ENERGY DEMAND (SES-8016043);* 12 MONTHS $120,951

FRIEDLAENDER, ANN F; *REGULATION AND PRODUCTIVITY GROWTH IN THE TRUCKING INDUSTRY (SES-8016051);* 24 MONTHS $116,872

WEINER, CHARLES; *MOLECULAR BIOLOGISTS AND TECHNOLOGY: HISTORICAL PERSPECTIVES ON CHANGING VALUES (SES-8100186);* 36 MONTHS $61,985

DIAMOND, PETER A; *SEARCH EQUILIBRIUM (SES-8105184);* 24 MONTHS $23,499

WEITZMAN, MARTIN L; *R & D AS A SEARCH AND INFORMATION GATHERING PROCESS (SES-8105453);* 12 MONTHS $33,608

FREEMAN, JOHN R; *COLLABORATIVE RESEARCH ON MODELS OF GOVERNMENTAL DYNAMICS IN DEPENDENT SOCIETIES (SES-8105841);* 24 MONTHS $48,726

DORNBUSCH, RUDIGER; *CAPITAL MOBILITY, EXCHANGE RATE RULES AND TRADE POLICY (SES-8105878*);* 24 MONTHS $60,386

FISCHER, STANLEY; *COSTS AND EFFECTS OF INFLATION AND INFLATION UNCERTAINTY (SES-8105879*);* 24 MONTHS $55,002

SCHMALENSEE, RICHARD; *PRODUCT DIFFERENTIATION AND COMPETITION IN MODERN MARKETS (SES-8106936*);* 24 MONTHS $51,000

SLOTKIN, HELEN W; *APPRAISAL AND RECORDS MANAGEMENT GUIDELINES FOR SCIENTIFIC AND TECHNOLOGICAL RECORDS (SES-8109479*);* 24 MONTHS $1,000

FRIEDLAENDER, ANN F; *AN ECONOMIC ANALYSIS OF THE RECENT AND FUTURE PERFORMANCE OF THE U.S. AUTOMOBILE INDUSTRY (SES-8113550)*; 18 MONTHS $74,828

NATIONAL BUREAU OF ECONOMIC RESEARCH INC

GREEN, JERRY R; *EXPECTATIONS AND QUANTITY - CONSTRAINED MACROECONOMIC SYSTEMS (SES-7806162 A02)*; 12 MONTHS $70,566

GORDON, ROBERT J; *GOVERNMENT - INDUCED SUPPLY SHIFTS AS A SOURCE OF INFLATION (SES-7813765 A02)*; 12 MONTHS $54,344

FELDSTEIN, MARTIN S; *ECONOMIC EFFECTS OF TAX CHANGES: A BEHAVIORAL MICROSIMULATION MODEL (SES-7820093 A01)*; 12 MONTHS $221,639

HALL, ROBERT E; *EMPIRICAL RESEARCH ON ECONOMIC FLUCTUATIONS (SES-7825471 A02)*; 12 MONTHS $29,470

BARRO, ROBERT J; *MONEY, PUBLIC DEBT, EXPECTATIONS, AND ECONOMIC ACTIVITY (SES-7825475 A02)*; 12 MONTHS $36,810

LANDES, WILLIAM M, AND POSNER, RICHARD A; *THE ECONOMICS OF TORT LAW AND LEGAL PRECEDENTS (SES-8006565 A01)*; 12 MONTHS $59,033

ROTHSCHILD, MICHAEL, AND WILSON, CHARLES; *IMPLICATIONS OF DYNAMICS AND IMPERFECT INFORMATION FOR ECONOMIC THEORY (SES-8007001 A01)*; 12 MONTHS $30,365

SHAVELL, STEVEN; *THE PRINCIPAL-AGENT RELATIONSHIP IN LAW AND ECONOMICS (SES-8014208*)*; 12 MONTHS $56,118

MCLURE, CHARLES E, AND ROSEN, SHERWIN; *UNIVERSITIES RESEARCH CONFERENCE: ECONOMICS OF COMPENSATION, CAMBRIDGE, MASSACHUSETTS, NOVEMBER 21-22, 1980 (SES-8014253)*; 6 MONTHS $17,919

HENDERSHOTT, PATRICK H, AND HU, SHENG C; *INFLATION, TAXATION AND CAPITAL FORMATION (SES-8016064 A01)*; 12 MONTHS $69,990

OBSTFELD, MAURICE; *EXCHANGE RATES AND CAPITAL FLOWS UNDER RATIONAL EXPECTATIONS (SES-8023081)*; 24 MONTHS $89,983

GOLDIN, CLAUDIA D; *EVOLUTION OF FEMALE PARTICIPATION IN THE MARKET ECONOMY: DATA BASE AND ANALYSIS (SES-8023643*)*; 24 MONTHS $25,000

BRUNO, MICHAEL, AND SACHS, JEFFREY; *MACROECONOMIC AND STRUCTURAL CHANGE IN OPEN ECONOMIES (SES-8025537)*; 24 MONTHS $133,162

LAZEAR, EDWARD P; *AN ANALYSIS OF LABOR UNIONS: A THEORY AND EMPIRICAL STUDY OF FORMATION, BEHAVIOR, AND STRUCTURE (SES-8105714)*; 24 MONTHS $27,012

AUERBACH, ALAN, AND KOTLIKOFF, LAURENCE J; *NATIONAL SAVINGS, ECONOMIC WELFARE AND THE STRUCTURE OF TAXATION (SES-8105835)*; 24 MONTHS $16,994

SHILLER, ROBERT J; *CAPITAL MARKETS AND MACROECONOMIC FLUCTUATIONS (SES-8105837)*; 24 MONTHS $25,000

KRUEGER, ANNE O; *TRANSITION FROM A CLOSED TO AN OPEN ECONOMY (SES-8106206)*; 24 MONTHS $19,600

GORDON, ROBERT J; *EMPIRICAL RESEARCH ON INFLATION AND PRODUCTIVITY (SES-8112000)*; 12 MONTHS $40,000

FRIEDMAN, BENJAMIN M; *MONEY, CREDIT, INTEREST AND ECONOMIC ACTIVITY IN THE UNITED STATES (SES-8112673)*; 24 MONTHS $64,796

REGIONAL SCIENCE RESEARCH INSTITUTE

STEVENS, BENJAMIN H; *ECONOMIC DETERMINANTS OF INDUSTRIAL LOCATION AND INTERREGIONAL TRADE FLOWS (SES-8025378)*; 24 MONTHS $54,956

TUFTS UNIVERSITY

MARRONE, STEVEN P; *ACCOMMODATION AND ADAPTATION: A CASE STUDY OF THE RECEPTION OF RADICAL NEW SCIENTIFIC THEORIES (SES-8107712)*; 12 MONTHS $4,994

UNIVERSITY OF MASSACHUSETTS, AMHERST

FIELD, BARRY C; *RESPONSES TO ENERGY PRICE INCREASES: A REGIONAL ANALYSIS (SES-8020858)*; 16 MONTHS $50,000

WELLESLEY COLLEGE

MERRY, SALLY E, AND SILBEY, SUSAN S; *LEGITIMACY AND COERCION IN INFORMAL COMMUNITY JUSTICE (SES-8012034 A01*)*; 12 MONTHS $13,501

HARLAN, SHARON L; *THE EFFECTS OF EDUCATION AND TRAINING DIFFERENCES ON THE EMPLOYMENT OPPORTUNITIES OF WOMEN AND MEN (SES-8023043*)*; 24 MONTHS $78,000

MICHIGAN

MICHIGAN STATE UNIVERSITY

BARRETT, PAUL H; *THE TRANSCRIPTION AND ANNOTATION OF DARWIN'S 'QUESTIONS & EXPERIMENTS' NOTEBOOK (SES-8019921)*; 12 MONTHS $27,899

MILLER, GARY J; *STABILIZING CONSTRAINTS OPERATING IN MAJORITY RULE INSTITUTIONS (SES-8111401)*; 12 MONTHS $47,286

UNIVERSITY OF MICHIGAN-ANN ARBOR

MILLER, WARREN E; *LONG-TERM SUPPORT FOR THE AMERICAN NATIONAL ELECTION STUDIES (SES-7708885 A05)*; 12 MONTHS $300,948

CONVERSE, JEAN M, AND SCHUMAN, HOWARD; *A HISTORY OF SURVEY RESEARCH IN THE UNITED STATES: 1935-1955 (SES-7811409 A01)*; 12 MONTHS $20,962

SINGER, J DAVID; *CONFRONTATIONAL BEHAVIOR AND ESCALATION TO WAR: HISTORICAL PATTERNS 1816-1980 (SES-7812301 A01)*; 24 MONTHS $120,375

HOUSE, JAMES S, AND MASON, WILLIAM M; *INDICATORS OF POLITICAL ALIENATION IN AMERICA (SES-7817407 A01)*; 12 MONTHS $49,911

BURKS, ARTHUR W, AND HOLLAND, JOHN H; *FORMAL AND INTERDISCIPLINARY STUDIES OF ADAPTIVE AND COMPUTING SYSTEMS 1979-1982 (MCS-7826016 A02*)*; 12 MONTHS $6,243

WRIGHT, SUSAN; *DEVELOPMENT OF POLICY FOR RECOMBINANT DNA TECHNOLOGY (SES-7826618 A01)*; 12 MONTHS $40,000

INGLEHART, RONALD F; *CLEAVAGE AND CONSENSUS AMONG EUROPEAN ELITES AND PUBLICS (SES-7914619 A02)*; 12 MONTHS $45,869

JUSTER, F THOMAS, AND STAFFORD, FRANK P; *1980-81 STUDY OF TIME ALLOCATION AMONG AMERICAN HOUSEHOLDS (SES-7915968 A01)*; 12 MONTHS $471,519

ANTON, THOMAS J; *TRACKING THE INTERGOVERNMENTAL FISCAL SYSTEM (SES-7924155 A01)*; 12 MONTHS $94,376

SCHUMAN, HOWARD; *EFFECTS OF QUESTION CONTEXT IN LARGE-SCALE SURVEYS OF PUBLIC ATTITUDES (SES-8016136)*; 12 MONTHS $79,000

MORGAN, JAMES N, AND DUNCAN, GREG J; *THE PANEL STUDY OF FAMILY INCOME DYNAMICS (SES-8017423*)*; 12 MONTHS $300,000

OKSENBERG, MICHEL; *DOCTORAL DISSERTATION RESEARCH IN POLITICAL SCIENCE (SES-8020059)*; 24 MONTHS $7,080

AXELROD, ROBERT; *THEORIES OF COOPERATIVE BEHAVIOR (SES-8023556*)*; 24 MONTHS $98,430

MIDLARSKY, MANUS I; *CONFLICT POTENTIAL IN WEAKLY REGULATED SYSTEMS (SES-8025047)*; 18 MONTHS $50,917

TILLY, CHARLES; *SOCIAL CHANGE AND COLLECTIVE ACTION (SES-8026113)*; 24 MONTHS $188,575

LAITNER, JOHN P; *LONG-RUN GROWTH IN A DECENTRALIZED ECONOMY (SES-8106555)*; 18 MONTHS $15,000

JACKSON, JOHN E; *THE POLITICAL ECONOMY OF FEDERAL TAX POLICY (SES-8108525)*; 14 MONTHS $68,537

LANGTON, KENNETH P; *CONFLICT BEHAVIOR OF MINE WORKERS (SES-8110260)*; 12 MONTHS $14,023

BARNES, SAMUEL H, JENNINGS, M KENT, FARAH, BARBARA G, AND INGLEHART, RONALD F; *DATA PREPARATION OF THE U. S. PORTION OF A CROSS-NATIONAL PANEL STUDY OF CHANGING POLITICAL ORIENTATIONS (SES-8112265)*; 12 MONTHS $58,300

UNIVERSITY OF MICHIGAN-DEARBORN

THAGARD, PAUL R; *KNOWLEDGE STRUCTURES: METHODOLOGICAL AND CONCEPTUAL ISSUES IN COGNITIVE SCIENCE (SES-8107556)*; 12 MONTHS $5,000

WAYNE STATE UNIVERSITY

CHELST, KENNETH R; *MATHEMATICAL MODELS OF EMERGENCY SERVICE CONSOLIDATION (SES-8022935)*; 12 MONTHS $35,000

CHELST, KENNETH R; *MATHEMATICAL MODELS OF EMERGENCY SERVICE CONSOLIDATION (SES-8022935 A01)*; 6 MONTHS $17,000

MINNESOTA

UNIVERSITY OF MINNESOTA

HURWICZ, LEONID; *COMPARISON AND ANALYSIS OF SYSTEMS AND TECHNIQUES OF ECONOMIC ORGANIZATIONS (SES-7825734 A02*)*; 12 MONTHS $28,000

DUVALL, RAYMOND D; *COLLABORATIVE RESEARCH ON MODELS OF GOVERNMENTAL DYNAMICS IN DEPENDENT SOCIETIES (SES-7907074 A01)*; 24 MONTHS $69,438

PRESCOTT, EDWARD C; *COLLABORATIVE RESEARCH ON BUSINESS CYCLE AND STABILIZATION THEORY (SES-8023514)*; 12 MONTHS $42,031

ALDRICH, JOHN H; *A MODEL OF PARTY ACTIVISM: ITS POLICY BASIS AND ITS ELECTORAL CONSEQUENCES (SES-8105848)*; 24 MONTHS $85,744

KRUTTSCHNITT, CANDACE; *RESEARCH INITIATION: ASSESSING THE EFFECT OF SEXUAL STATUS ON CRIMINAL COURTROOM DECISIONS (SES-8107095)*; 14 MONTHS $39,359

MISSISSIPPI

MISSISSIPPI STATE UNIVERSITY

DOOLITTLE, WILLIAM E; *AN ANALYSIS OF THE CHANGING PATTERN OF ARROYO AGRICULTURE (SES-8100846)*; 12 MONTHS $21,830

MISSOURI

WASHINGTON UNIVERSITY

ALLEN, GARLAND E; *THE HISTORY OF GENETICS AND EUGENICS (SES-8026095)*; 12 MONTHS $18,500

SHEPSLE, KENNETH A, AND WEINGAST, BARRY R; *INSTITUTIONAL POLICY MAKING AND THE POLITICAL TRANSFORMATION OF ECONOMIC BENEFITS (SES-8110016)*; 24 MONTHS $99,475

NEW HAMPSHIRE

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

DIEFENDORF, JEFFRY M; *RESEARCH INITIATION: A COMPARATIVE ANALYSIS OF FACTORS INFLUENCING URBAN RECONSTRUCTION (SES-8107855)*; 24 MONTHS $16,977

COHN, ELLEN S, AND WHITE, SUSAN O; *COGNITIVE AND SOCIAL DETERMINANTS OF THE INTERNALIZATION OF LEGAL NORMS (SES-8119090)*; 24 MONTHS $84,703

NEW JERSEY

PRINCETON UNIVERSITY

JEFFREY, RICHARD C; *CAUSALITY AND DECISION (SES-7909673 A02)*; 11 MONTHS $5,000

SONNENSCHEIN, HUGO F; *COLLABORATIVE RESEARCH ON FOUNDATIONS OF COMPETITIVE ANALYSIS (SES-7924830 A01)*; 12 MONTHS $31,747

CHOW, GREGORY C; *CONTROL, ESTIMATION AND SELECTION OF ECONOMETRIC MODELS (SES-8012582)*; 12 MONTHS $106,195

QUANDT, RICHARD E; *THE ECONOMETRICS OF DISEQUILIBRIUM AND QUANTITY RATIONING (SES-8012592)*; 12 MONTHS $46,516

QUANDT, RICHARD E, AND GOLDFELD, STEPHEN M; *THE ECONOMETRICS OF DISEQUILIBRIUM AND QUANTITY RATIONING (SES-8012592 A01)*; $22,552

WILLIG, ROBERT D; *ANALYTIC TOOLS FOR NORMATIVE ECONOMICS (SES-8015571)*; 24 MONTHS $109,340

FULLERTON, DON; *INFLATION AND CORPORATE FINANCIAL BEHAVIOR IN A GENERAL EQUILIBRIUM TAXATION MODEL (SES-8025404)*; 24 MONTHS $41,732

KOCHEN, SIMON; *FOUNDATIONS OF QUANTUM MECHANICS (SES-8025994)*; 24 MONTHS $49,623

BLINDER, ALAN S; *INVENTORY BEHAVIOR AND MACROECONOMIC FLUCTUATIONS (SES-8105884)*; 24 MONTHS $57,566

TAYLOR, JOHN B; *ECONOMETRIC RESEARCH ON MACROECONOMIC FLUCTUATIONS (SES-8106219)*; 24 MONTHS $56,000

SERVOS, JOHN W; *A SCIENTIFIC DISCIPLINE IN THE AMERICAN CONTEXT: PHYSICAL CHEMISTRY, 1890-1930 (SES-8108916)*; 6 MONTHS $5,000

RUTGERS UNIVERSITY

JENKINS, REESE V; *THOMAS A. EDISON PAPERS (04S-8109665*)*; 12 MONTHS $46,707

WILLIAM PATERSON COLLEGE

GRUBER, CAROL S; *SCIENCE, GOVERNMENT, AND UNIVERSITIES IN WORLD WAR II (SES-8109060)*; 26 MONTHS $25,000

NEW MEXICO

NEW MEXICO STATE UNIVERSITY

ROPP, STEVEN; *CONFERENCE ON DEPENDENCY REVERSAL, OCTOBER-NOVEMBER, 1981, LAS CRUCES, NEW MEXICO (SES-8008643)*; 12 MONTHS $12,202

NEW YORK

AMERICAN COUNCIL OF LEARNED SOCIETIES

BURKHARDT, FREDERICK; *EDITION OF THE CORRESPONDENCE OF CHARLES DARWIN (SES-7912492 A01)*; 12 MONTHS $52,234

AMERICAN INSTITUTE OF PHYSICS

WEART, SPENCER R, AND HODDESON, LILLIAN H; *A HISTORY OF SOLID-STATE PHYSICS (SES-8025768)*; 12 MONTHS $24,210

BARD COLLEGE

STROUP, ALICE; *A COMPANY OF SCIENTISTS: THE 17TH-CENTURY PARISIAN ACADEMY OF SCIENCES AND ITS BOTANICAL RESEARCH (SES-8109108)*; 12 MONTHS $5,000

BARUCH COLLEGE

LUSTGARTEN, STEVEN, AND THOMADAKIS, STAVROS; *BARRIERS TO EXIT IN MANUFACTURING INDUSTRIES (SES-8015513)*; 24 MONTHS $65,872

BROOKLYN COLLEGE

ZUKIN, SHARON; *RESPONSES TO ECONOMIC DECLINE IN SELECTED AMERICAN INDUSTRIES (SES-8014240*)*; 15 MONTHS $33,834

CENTER FOR GOVERNMENTAL RESEARCH INC

GRASBERGER, FRIEDRICH J; *INTRA-COUNTY/ REGIONAL REVENUE SHARING FORMULA ANALYSIS (SES-8008624)*; 12 MONTHS $137,482

CENTER FOR POLICY RESEARCH INC

PERROW, CHARLES B; *ACCIDENTS IN HIGH RISK SYSTEMS (SES-8014723 A01)*; 14 MONTHS $58,933

COLLEGE AT OLD WESTBURY

ROSENTHAL, NAOMI; *SOCIAL NETWORKS AND SOCIAL MOVEMENTS: A DYNAMIC ANALYSIS (SES-8108929)*; 12 MONTHS $57,086

COLUMBIA UNIVERSITY

SPILERMAN, SEYMOUR; *COLLABORATIVE RESEARCH ON MATHEMATICAL MODELS OF SOCIAL CHANGE (SES-7901936 A01)*; 6 MONTHS $4,946

MERTON, ROBERT K; *THEORETICAL SOCIOLOGY: UNINTENDED CONSEQUENCES AND THE SELF-FULFILLING PROPHECY (SES-7927238 A01)*; 12 MONTHS $55,088

ZUCKERMAN, HARRIET, AND COLE, JONATHAN R; *CAREER PATTERNS IN SCIENTIFIC RESEARCH PERFORMANCE (SES-8008609 A01)*; 12 MONTHS $119,857

HANOCH, GIORA, AND HONIG, MARJORIE; *AGE, PERIOD, COHORT EFFECTS IN THE LABOR MARKET BEHAVIOR (SES-8014263)*; 18 MONTHS $83,256

LEWIN, DAVID; *THE GRIEVANCE PROCESS IN PRIVATE AND PUBLIC SECTOR LABOR RELATIONS: A THEORETICAL AND EMPIRICAL ANALYSIS (SES-8023041)*; 24 MONTHS $197,933

LANCASTER, KELVIN J; *THEORY OF TRADE AND MARKET STRUCTURE WITH VARIABLE PRODUCT DIFFERENTIATION (SES-8025043)*; 12 MONTHS $36,847

BHAGWATI, JAGDISH N; *INTERNATIONAL TRADE, FACTOR MOBILITY AND WELFARE (SES-8025401)*; 12 MONTHS $38,933

MEHRA, RAJNISH, AND DONALDSON, JOHN B; *COMPARATIVE DYNAMICS OF STOCHASTIC ECONOMIES (SES-8025547)*; 24 MONTHS $71,625

CALLAGHY, THOMAS M; *THIRD WORLD DEBT AND THE INTERNATIONAL SYSTEM: THE CASE OF ZAIRE (SES-8117634*)*; 14 MONTHS $29,395

CORNELL UNIVERSITY

MAJUMDAR, MUKUL K; *THEORY OF INTERTEMPORAL ALLOCATION, EXHAUSTIBLE RESOURCES AND UNCERTAINTY (SES-7906540 A02)*; 12 MONTHS $33,970

MASSON, ROBERT T; *MARKET POWER, ANTITRUST AND REGULATION POLICY: A STUDY OF MARKETING ORDERS (SES-8111237)*; 24 MONTHS $75,921

BURDETT, KENNETH; *COLLABORATIVE RESEARCH ON INFORMATION UNCERTAINTY AND LABOR MARKET EQUILIBRIUM (SES-8119501)*; 13 MONTHS $40,600

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

MC GINNIS, ROBERT; *NETWORKS OF BASIC AND APPLIED RESEARCH COMMUNITIES IN AGRICULTURAL SCIENCE (SES-7826163 A02)*; 12 MONTHS $15,747

CORNELL UNIVERSITY-CORNELL UNIVERSITY - STATE

SMITH, ROBERT S; *UNION EFFECTS OF COMPENSATING WAGE DIFFERENTIALS (SES-8022658)*; 16 MONTHS $58,020

FORDHAM UNIVERSITY

SCHNEIDER, PETER T; *CLASS FORMATION AND POPULATION GROWTH IN SICILY, 1850-1930 (BNS-8016583*)*; 24 MONTHS $24,500

LEHMAN COLLEGE

PEPPE, PATRICK V; *POLITICAL CONSCIOUSNESS AND BEHAVIOR (SES-8024577*)*; 12 MONTHS $63,313

NATIONAL BUREAU OF ECONOMIC RESEARCH INC-NATIONAL BUREAU OF ECONOMIC RES INC-NEW YORK

FELDSTEIN, MARTIN S; *MACROECONOMIC EFFECTS OF FISCAL PROGRAMS (SES-7727474 A02)*; 12 MONTHS $121,698

FELDSTEIN, MARTIN S; *MACROECONOMIC EFFECTS OF FISCAL PROGRAMS (SES-7727474 A03*)*; 12 MONTHS $130,881

MINCER, JACOB; *ECONOMIC DETERMINANTS OF LIFETIME EARNINGS (SES-7813878 A02)*; 24 MONTHS $49,000

HALL, ROBERT E; *PROJECT ON INFLATION (SES-7824637 A02)*; 12 MONTHS $123,429

STIGLITZ, JOSEPH E; *INFORMATION, INNOVATION, AND MARKET STRUCTURES (SES-7926751 A02)*; 12 MONTHS $50,644

BILSON, JOHN F O; *AN EMPIRICAL ANALYSIS OF INTERNATIONAL MONETARY ECONOMICS (SES-8009458)*; 12 MONTHS $8,133

SHAKOTKO, ROBERT; *AN ECONOMIC ANALYSIS OF CHILD DEVELOPMENT (SES-8015082)*; 24 MONTHS $67,014

NEW YORK UNIVERSITY

BAUMOL, WILLIAM J; *APPLIED THEORY OF FAIRNESS (SES-8011101)*; 24 MONTHS $70,189

MONROE, KRISTEN; *CONFERENCE ON THE POLITICAL PROCESS AND ECONOMIC CHANGE, OCTOBER, 1981, NEW YORK, NEW YORK (SES-8025392)*; 12 MONTHS $16,745

SILBER, WILLIAM L; *DOMINANT SATELLITE MARKETS: GENERAL THEORY WITH APPLICATIONS TO FINANCIAL MARKET STRUCTURE AND REGULATION (SES-8103156)*; 24 MONTHS $30,000

PACE UNIVERSITY

STERLING, KEIR B, AND BOCK, WALTER J; *HISTORY OF NORTH AMERICAN ORNITHOLOGY (SES-8025992)*; 12 MONTHS $31,000

SOCIAL SCIENCE RESEARCH COUNCIL

PREWITT, KENNETH; *CENTER FOR COORDINATION OF RESEARCH ON SOCIAL INDICATORS (SES-7721636 A04)*; 12 MONTHS $469,000

PREWITT, KENNETH; *RESEARCH COMMITTEE AND DATA BASE FOR COMPARATIVE RESEARCH ON SOCIETAL PATTERNS OF INDUSTRIAL CHANGE, SOCIAL MOBILITY, AND INEQUALITY (SES-8024448)*; 12 MONTHS $55,318

STATE UNIVERSITY AT ALBANY

BROWN, M CRAIG; *COLLABORATIVE RESEARCH ON THE BUREAUCRATIZATION OF EMPLOYMENT RELATIONS (SES-7905548 A02)*; 12 MONTHS $19,499

BLAU, PETER M; *EFFECTS OF METROPOLITAN SOCIAL STRUCTURE ON INTERGROUP INTERACTION (SES-7919935 A01)*; 6 MONTHS $6,036

SPITZE, GLENNA D; *HOUSEHOLD LABOR AND NATALIST ATTITUDES OF U.S. COUPLES (SES-8023646)*; 15 MONTHS $25,156

MCCAFFREY, DAVID P; *RESEARCH INITIATION: AN ANALYSIS OF THE IMPACTS OF FEDERAL OCCUPATIONAL AND HEALTH SAFETY STANDARDS (SES-8107342)*; 12 MONTHS $18,748

STATE UNIVERSITY AT BINGHAMTON

MURRAY, MARTIN; *RACE RELATIONS AND POLITICAL AND ECONOMIC DEVELOPMENT (SES-8007140*)*; 24 MONTHS $29,685

PETRAS, JAMES F; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY (SES-8016409)*; 18 MONTHS $4,925

STATE UNIVERSITY AT BUFFALO

ROSS, H LAURENC, AND THOMAS, JOHN M; *ALTERNATIVE MODELS OF REGULATORY ENFORCEMENT IN HOUSING (SES-8010939 A01*)*; 12 MONTHS $63,640

LEVINE, MURRAY; *THE IMPACT OF JUDICIAL ORDERS ON INSTITUTIONAL COMPLIANCE AND CHANGE (SES-8023954)*; 24 MONTHS $57,076

STATE UNIVERSITY AT STONY BROOK

RACHLIN, HOWARD C; *REINFORCEMENT AND PUNISHMENT IN A CLOSED SYSTEM (BNS-7809095 A02*)*; 12 MONTHS $30,367

ZEMANIAN, ARMEN H; *DYNAMIC MODELS OF PERIODIC MARKETING NETWORKS (MCS-8020386*)*; 36 MONTHS $20,000

LODGE, MILTON, AND NORPOTH, HELMUT; *THE MEASUREMENT AND STRUCTURAL MODELING OF ELECTORAL BEHAVIOR (SES-8025069)*; 12 MONTHS $98,184

ENELOW, JAMES M; *THEORETICAL DEVELOPMENTS IN SPATIAL MODELS OF ELECTORAL COMPETITION (SES-8111411)*; 24 MONTHS $55,237

SYRACUSE UNIVERSITY

CAMPBELL, DONALD T; *THEORY OF SOCIAL EXPERIMENTATION, MEASUREMENT AND PROGRAM EVALUATION (BNS-7925577 A01*)*; 12 MONTHS $44,875

JENSEN, ROBERT G; *DOCTORAL DISSERTATION RESEARCH IN GEOGRAPHY AND REGIONAL SCIENCE (SES-8024542)*; 12 MONTHS $4,676

FOLLAIN, JAMES R; *RESEARCH INITIATION: AN ECONOMETRIC INVESTIGATION OF CHANGES IN THE SPATIAL STRUCTURE OF METROPOLITAN AREAS IN THE 1970S (SES-8107788)*; 14 MONTHS $39,513

LONG, SUSAN B; *RESEARCH INITIATION: CIVIL SANCTIONS AND SOCIAL CONTROL: A QUASI-EXPERIMENT STUDY OF COMPLIANCE WITH THE LAW (SES-8107798*)*; 24 MONTHS $40,000

UNIVERSITY OF ROCHESTER

JONES, RONALD W; *TECHNOLOGY AND THE THEORY OF INTERNATIONAL TRADE (SES-7806159 A01)*; 24 MONTHS $87,864

KYBURG, HENRY E; *THEORETICAL AND LINGUISTIC CHANGE IN SCIENCE (SES-8023005)*; 24 MONTHS $5,241

REAGAN, PATRICIA B; *RESEARCH INITIATION: QUANTITY ADJUSTMENTS, BUSINESS CYCLES AND THE INFLATIONARY PROCESS (SES-8107302)*; 12 MONTHS $34,010

BENSTON, GEORGE J; *AN INVESTIGATION OF THE HOUSING LOCATION CHOICE PROCESS (SES-8113132)*; 12 MONTHS $50,005

VASSAR COLLEGE

RAPPAPORT, RHODA; *HISTORICAL GEOLOGY AND THE HISTORY OF MANKIND (SES-8025391)*; 12 MONTHS $24,657

NORTH CAROLINA

DUKE UNIVERSITY

PAS, ERIC I; *COLLABORATIVE RESEARCH ON SPATIAL-TEMPORAL CHARACTERISTICS OF PERSON TRAVEL BEHAVIOR (SES-8112494)*; 22 MONTHS $38,157

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

GALLANT, A; *INSTRUMENTAL VARIABLES METHODS FOR NONLINEAR MODELS (SES-8014339)*; 24 MONTHS $60,220

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

SMITH, V K; *THE ROLE OF NATURAL RESOURCES FOR MODELS OF INDUCED TECHNICAL CHANGE: AN EXPERIMENTAL AND THEORETICAL ANALYSIS (SES-7921805 A01)*; 11 MONTHS $6,291

LENSKI, GERHARD E, AND KASARDA, JOHN D; *TECHNOLOGY AND SOCIAL CHANGE: CONCEPTUALIZATION AND MEASUREMENT (SES-8004726)*; 24 MONTHS $164,977

OHIO

KENYON COLLEGE

CADDEN, JOAN; *EARLY MODELS OF ROLE DIFFERENTIATION (SES-8109664)*; 12 MONTHS $5,000

OHIO STATE UNIVERSITY

KESSEL, JOHN H; *STRUCTURAL AND TEMPORAL PATTERNS IN EXECUTIVE POLITICS (SES-8024079)*; 24 MONTHS $77,994

BROWN, LAWRENCE A; *A COMPARATIVE ANALYSIS OF THE RELATIONSHIP BETWEEN MIGRATION AND ECONOMIC DEVELOPMENT (SES-8024565*)*; 24 MONTHS $93,960

COX, KEVIN R; *NEIGHBORHOOD ACTIVISM IN THE AMERICAN CITY: 1950 - 1980 (SES-8112324)*; 24 MONTHS $49,656

UNIVERSITY OF CINCINNATI

STAFFORD, HOWARD A; *THE EFFECTS OF ENVIRONMENTAL REGULATIONS ON INDUSTRIAL LOCATION (SES-8024563)*; 17 MONTHS $74,309

BISHOP, GEORGE F, OLDENDICK, ROBERT W, AND TUCHFARBER, ALFRED J; *EXPERIMENTS ON POLITICAL INFORMATION-PROCESSING AND RESPONSES IN SAMPLE SURVEYS (SES-8111404)*; 12 MONTHS $49,721

OREGON

OREGON STATE UNIVERSITY

FARBER, PAUL L; *THE COLLECTION OF NATURAL HISTORY DATA: A STUDY OF NATIONAL STYLES OF SCIENCE (SES-8108313)*; 12 MONTHS $5,000

UNIVERSITY OF OREGON - EUGENE

ORBELL, JOHN M, AND DAWES, ROBYN M; *COLLABORATIVE RESEARCH ON EXPERIMENTAL SOCIAL DILEMMA BEHAVIOR (SES-8105695)*; 12 MONTHS $59,887

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

CRECINE, JOHN P; *MUNICIPAL BUDGETARY PROCESSES AND THE IMPACT OF FEDERAL ASSISTANCE PROGRAMS (SES-7812984 A02)*; 4 MONTHS $20,494

KRIEBEL, CHARLES H; *RESEARCH ON PRODUCTIVITY IMPROVEMENT IN ADMINISTRATIVE SERVICES THROUGH RESOURCE ALLOCATION MECHANISMS (SES-7819660 A03)*; 10 MONTHS $52,091

HARRIS, MILTON; *THE ECONOMICS OF ASYMMETRIC INFORMATION (SES-7826262 A01)*; 24 MONTHS $47,122

CYERT, RICHARD M, AND DE GROOT, MORRIS H; *BAYESIAN ANALYSIS IN ECONOMIC THEORY (SES-7906396 A02)*; 12 MONTHS $35,434

CONSTANT, EDWARD W; *SCIENCE IDEOLOGY AND OIL: THE EVOLUTION OF PUBLIC POLICY IN TEXAS, 1919-1956 (SES-7912933 A02)*; 12 MONTHS $8,883

ORDESHOOK, PETER C; *COLLABORATIVE RESEARCH ON A THEORETICAL AND EXPERIMENTAL ANALYSIS OF COMMITTEE COALITION PROCESSES (SES-7913415 A02*)*; 12 MONTHS $36,044

ROMER, THOMAS, AND ROSENTHAL, HOWARD L; *AGENDA CONTROL INSTITUTIONS AND PUBLIC POLICY (SES-7917576 A02*)*; 11 MONTHS $69,986

MELTZER, ALLAN H; *CARNEGIE-ROCHESTER CONFERENCE ON PUBLIC POLICY (SES-8008112 A01*)*; $100,000

TOWNSEND, ROBERT M; *OPTIMAL AND EQUILIBRIUM ALLOCATIONS IN MARKETS WITH PRIVATE INFORMATION (SES-8014397)*; 12 MONTHS $40,497

SPATT, CHESTER; *THE ECONOMICS OF PRICE DISCRIMINATION (SES-8015086)*; 24 MONTHS $45,288

STEWMAN, SHELBY; *ORGANIZATIONAL DEMOGRAPHY AND LABOR (SES-8017884)*; 24 MONTHS $212,327

NERLOVE, SARA B; *IPA MOBILITY ASSIGNMENT (SARA NERLOVE) (SES-8101809)*; 13 MONTHS $37,334

NERLOVE, SARA B; *IPA MOBILITY ASSIGNMENT (SARA B. NERLOVE) (SES-8101809 A01)*; $1,496

PELED, DAN; *RESEARCH INITIATION: GOVERNMENT PROVISION OF INDEXED BONDS IN INFLATIONARY ECONOMICS (SES-8107253)*; 14 MONTHS $38,603

CONSAD RESEARCH CORPORATION

DOCTORS, SAMUEL I; *EVALUATION OF THE EXPERIMENTAL PHASE OF THE URBAN TECHNOLOGY SYSTEM: PHASE II (ISP-7827101 A07*)*; $13,000

INSTITUTE FOR SCIENTIFIC INFORMATION INC

SMALL, HENRY G; *WORKSHOP ON HISTORICAL APPLICATIONS OF CITATION DATA TO BE HELD IN PHILADELPHIA IN OCTOBER 1982 (SES-8109121*)*; 18 MONTHS $39,934

PENNSYLVANIA STATE UNIVERSITY

CLOGG, CLIFFORD C; *DEMOGRAPHIC INDICATORS OF UNDEREMPLOYMENT, 1969-1980 (SES-7823759 A02)*; 12 MONTHS $32,478

ZELINSKY, WILBUR; *UNITED STATES POPULATION REDISTRIBUTION AND PERSONAL ENERGY USE (SES-7826121 A02)*; $2,474

WALSH, EDWARD J; *ACTIVISTS, ORGANIZATIONS AND SOCIAL MOVEMENT THEORY: INSIGHTS FROM THE RESPONSE TO THE THREE MILE ISLAND ACCIDENT (SES-8016762)*; 24 MONTHS $71,956

BELSKY, JAY, AND SPANIER, GRAHAM B; *MARRIAGE, PARENTING & INFANT DEVELOPMENT: A LONGITUDINAL STUDY (SES-8108886*)*; 18 MONTHS $50,467

EISENSTEIN, JAMES; *DOCTORAL DISSERTATION RESEARCH IN LAW & SOCIAL SCIENCES (SES-8111984*)*; 24 MONTHS $9,000

UNIVERSITY OF PENNSYLVANIA

TAUBMAN, PAUL J, AND BEHRMAN, JERE R; *AN INTER AND INTRA-GENERATIONAL STUDY OF HUMAN CAPITAL (SES-8005838)*; 24 MONTHS $250,000

BLAIR, DOUGLAS H; *THE STRUCTURE OF COLLECTIVE CHOICE RULES (SES-8007003*)*; 12 MONTHS $24,512

CASS, DAVID, SHELL, KARL, AND BALASKO, YVES; *GENERAL EQUILIBRIUM FOUNDATIONS OF INTERTEMPORAL DECISIONSTHE OVERLAPPING-GENERATIONS MODEL (SES-8007012 A01)*; 12 MONTHS $94,995

SUMMERS, ROBERT; *DOCTORAL DISSERTATION RESEARCH IN ECONOMICS (SES-8013080)*; 12 MONTHS $3,000

REINER, THOMAS A, AND WOLPERT, JULIAN; *THE NONPROFIT SECTOR IN THE METROPOLITAN ECONOMY (SES-8014331 A01)*; 12 MONTHS $59,068

BEHRMAN, JERE R; *COLLABORATIVE RESEARCH IN THE INTER- AND INTRAFAMILY DETERMINANTS OF CHILD EDUCATION IN A DEVELOPING COUNTRY (SES-8025356)*; 24 MONTHS $44,469

POSTLEWAITE, ANDREW; *GENERAL EQUILIBRIUM THEORY AND THE ECONOMICS OF UNCERTAINTY (SES-8026085)*; 6 MONTHS $7,067

POSTLEWAITE, ANDREW; *GENERAL EQUILIBRIUM ALLOCATION MECHANISMS AND RISK AVERSION (SES-8026086*)*; 12 MONTHS $42,162

SMITH, TONY E; *A NEW APPROACH TO THE ANALYSIS OF CONGESTED SPATIAL INTERACTION BEHAVIOR (SES-8106979)*; 12 MONTHS $34,810

PUTMAN, STEPHEN H; *SPATIAL ANALYSIS OF LAND CONSUMPTION (SES-8112792)*; 12 MONTHS $39,879

UNIVERSITY OF PENNSYLVANIA-WHARTON SCHOOL OF FINANCE AND COMMERCE

KIHLSTROM, RICHARD E; *THE ECONOMIC THEORY OF FREE ENTRY WITH UNCERTAINTY AND INCOMPLETE MARKETS (SES-8007569 A01)*; 12 MONTHS $55,372

UNIVERSITY OF PITTSBURGH

MCGUIRE, JAMES E; *METAPHYSICS OF NATURE: THEORIES OF SPACE, TIME, MATTER, AND MOTION (SES-7822616 A01)*; 24 MONTHS $5,000

FARARO, THOMAS J; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY (SES-8025382)*; 12 MONTHS $1,042

HEMPEL, CARL G; *PROBLEMS OF EMPIRICISM: ANALYTIC AND PRAGMATIST PERSPECTIVES (SES-8025399)*; 12 MONTHS $57,467

GLYMOUR, CLARK; *TESTING MATHEMATICALLY BASED THEORIES IN COMPUTER AND SOCIAL SCIENCES (SES-8025556)*; 24 MONTHS $29,619

RHODE ISLAND

BROWN UNIVERSITY

HENDERSON, J VERNON; *AN EMPIRICAL ANALYSIS OF THE DETERMINANTS OF CITY, METROPOLITAN AREA AND REGIONAL SIZES (SES-8013482*)*; 24 MONTHS $62,800

SACHS, ABRAHAM J; *HISTORY OF OBSERVATIONAL ASTRONOMY (SES-8023754)*; 12 MONTHS $34,302

SPULBER, DANIEL F; *COMPETITION AND WELFARE WITH NONLINEAR PRICING (SES-8105852)*; 12 MONTHS $11,646

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

LLOYD, ROBERT E, AND STEINKE, THEODORE R; *ANALYSIS OF THE RELATIONSHIPS BETWEEN COGNITIVE AND CARTOGRAPHIC MAPS (SES-8107126)*; 14 MONTHS $40,942

TENNESSEE

UNIVERSITY OF TENNESSEE AT KNOXVILLE

BELL, THOMAS L; *LOCATION-ALLOCATION MODELING OF ARCHAEOLOGICAL SETTLEMENT PATTERNS (SES-7923686 A01)*; $3,066

RALSTON, BRUCE A; *THE DYNAMICS OF TRANSPORTATION DEVELOPMENT (SES-8105838)*; 15 MONTHS $18,933

JOHNSON, MICHAEL G; *COGNITIVE DIMENSIONS OF LEGAL REASONING IN EXPERTS AND NON-EXPERTS (SES-8111295*)*; 24 MONTHS $65,000

TEXAS

RICE UNIVERSITY

HOWELL, WILLIAM C; *FORMAL AND EMPIRICAL STUDIES OF JURIDICAL INFERENCE (SES-8024303)*; 12 MONTHS $22,439

UNIV OF TEXAS AT AUSTIN

MARKOVITS, INGA; *INDIVIDUAL RIGHTS UNDER CAPITALISM AND COMMUNISM: A STUDY OF THE TWO GERMANIES (SES-7808984 A01)*; 12 MONTHS $39,441

GALLE, OMER R; *INCOME ATTAINMENT AND INEQUALITY IN METROPOLITAN AMERICA (SES-8007901 A01)*; 12 MONTHS $39,302

MYERS, DOWELL; *EMERGING FAMILY IMPACTS OF HOMEOWNERSHIP (SES-8120611)*; 12 MONTHS $34,318

UNIV OF TEXAS AT DALLAS

CHANNELL, DAVID F; *THE DEVELOPMENT OF THE ENGINEERING SCIENCE OF W.J.M. RANKINE (SES-8015514)*; 18 MONTHS $5,000

REES, JOHN; *THE INTER-REGIONAL DIFFUSION OF TECHNOLOGICAL INNOVATIONS OF THE ELECTRONIC COMPONENT INDUSTRY (SES-8105882)*; 12 MONTHS $47,309

ENGLAND, PAULA; *RESEARCH INITIATION: THE EARNINGS GAP BETWEEN BLUE COLLAR MEN AND WOMEN: EXPLANATIONS AND POLICY RECOMMENDATIONS (SES-8107345)*; 24 MONTHS $39,982

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

BALTAGI, BADI H; *RESEARCH INITIATION: AN EXPERIMENTAL STUDY FOR POOLING TIME-SERIES OF CROSS-SECTION DATA IN THE SIMULTANEOUS EQUATIONS MODEL (SES-8106667)*; 12 MONTHS $9,517

UTAH

UTAH STATE UNIVERSITY

SIMMONS, RANDY T; *INDIVIDUAL AND COLLECTIVE CHOICE IN SOCIAL DILEMMAS (SES-8107818)*; 15 MONTHS $39,816

VERMONT

UNIVERSITY OF VERMONT

NELSON, GARRISON; *COMPUTERIZATION OF LONGITUDINAL DATA ON CONGRESSIONAL ORGANIZATION (SES-8000284 A01)*; $11,037

RANKIN, JOANNA M; *HISTORICAL STUDIES OF THE ARECIBO OBSERVATORY (SES-8105180)*; 6 MONTHS $5,906

VIRGINIA

UNIVERSITY OF VIRGINIA

ROSS, DOROTHY; *THE ORIGINS OF THE AHISTORICAL CHARACTER OF AMERICAN SOCIAL SCIENCE (SES-7923830 A01)*; 12 MONTHS $27,600

VIRGINIA POLYTECHNIC INSTITUTE

TULLOCK, GORDON, AND TIDEMAN, NICOLAUS; *AN EXPERIMENT IN THE DEMAND-REVEALING PROCESS (SES-8025982)*; 12 MONTHS $39,670

RICHARDSON, BONHAM C; *IMPACT OF RETURN MIGRANTS AND REMITTED WAGES ON SOCIAL AND ECONOMIC CHANGE (SES-8105842)*; 12 MONTHS $25,000

WASHINGTON

UNIVERSITY OF WASHINGTON

MARTIN, R DOUGLAS; *DETECTION AND ESTIMATION OF STRUCTURAL SHIFT IN ECONOMIC TIME SERIES MODELS (SES-7809474 A01)*; 20 MONTHS $82,409

COOK, KAREN S, AND EMERSON, RICHARD M; *EXPERIMENTAL STUDIES OF EXCHANGE NETWORKS AND CORPORATE GROUPS (SES-7925788 A02)*; 12 MONTHS $109,229

PARKS, RICHARD W; *VERTICAL EQUITY IN REAL ESTATE ASSESSMENT: A FAIR APPRAISAL (SES-8023065)*; 12 MONTHS $38,999

BLUMSTEIN, PHILIP W; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY (SES-8023559)*; 12 MONTHS $2,409

BENNETT, W L; *A MODEL OF ISSUE EFFECTS IN MEDIA POLITICAL COMMUNICATIONS (SES-8025046)*; 18 MONTHS $38,458

BEYERS, WILLIAM B; *SPATIAL AND TEMPORAL DIMENSIONS OF INTERINDUSTRY LINKAGE SYSTEMS (SES-8109290)*; 12 MONTHS $25,571

WASHINGTON STATE UNIVERSITY

ROSA, EUGENE A; *AUDIO-VISUAL EQUIPMENT FOR SOCIOLOGICAL RESEARCH (SES-8016761)*; 12 MONTHS $26,795

SCHAEFER, DONALD F; *MIGRATION AND WEALTH IN THE U.S. ANTEBELLUM SOUTH (SES-8024010)*; 12 MONTHS $24,866

WESTERN WASHINGTON UNIVERSITY

MAZUR, DENIS P; *DEMOGRAPHY OF ETHNIC GROUPS IN THE SOVIET UNION (SES-7815904 A02)*; 12 MONTHS $48,075

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

WINSBOROUGH, HALLIMAN H, TAEUBER, KARL E, AND HAUSER, ROBERT M; *PUBLIC USE SAMPLE FILES FROM THE 1940 AND 1950 CENSUSES OF POPULATION (SES-7704135 A04)*; 18 MONTHS $1,450,000

HALLER, ARCHIBALD O; *PROCESSES OF SOCIAL STRATIFICATION: INFLUENCES OF ECONOMIC DEVELOPMENT (SES-7807414 A03)*; $17,949

WRIGHT, ERIK O; *DIMENSIONS OF SOCIAL INEQUALITY IN MODERN WESTERN SOCIETIES (SES-7819189 A02)*; 12 MONTHS $63,281

WILSON, FRANKLIN D; *MIGRATION, SOCIOECONOMIC ATTAINMENT, AND DIFFERENTIAL OPPORTUNITY STRUCTURES (SES-7826853 A01*)*; 12 MONTHS $10,080

HALABY, CHARLES N; *COLLABORATIVE RESEARCH ON THE BUREAUCRATIZATION OF EMPLOYMENT RELATIONS (SES-7905581 A03)*; 12 MONTHS $23,747

DENNIS, JACK; *ELECTION CAMPAIGNS AND PREADULT POLITICAL SOCIALIZATION (SES-7913435 A01)*; 12 MONTHS $51,762

DENNIS, JACK; *ELECTION CAMPAIGNS AND PREADULT POLITICAL SOCIALIZATION (SES-7913435 A02)*; 12 MONTHS $56,482

GOLDBERGER, ARTHUR S; *FAMILY DATA ANALYSIS: ASSORTMENT, SELECTION, AND TRANSMISSION (SES-8008053)*; 12 MONTHS $45,732

HAUSER, ROBERT M, AND SEWELL, WILLIAM H; *SOCIAL AND PSYCHOLOGICAL FACTORS IN ASPIRATION AND ACHIEVEMENT (SES-8010640 A01)*; 12 MONTHS $74,940

PENROD, STEVEN; *EMPIRICALLY-BASED MODELS OF JUROR AND JURY DECISION-MAKING (SES-8012331*)*; 24 MONTHS $38,275

WOLFE, BARBARA L, AND BEHRMAN, JERE R; *COLLABORATIVE RESEARCH IN THE INTER- AND INTRAFAMILY DETERMINANTS OF CHILD EDUCATION IN A DEVELOPING COUNTRY (SES-8014985)*; 24 MONTHS $56,026

MICHENER, H A; *TESTS OF GAME-THEORETIC SOLUTION CONCEPTS IN MULTI-PERSON CONFLICTS (SES-8015528)*; 12 MONTHS $70,187

CHAMBERLAIN, GARY E; *ECONOMETRICS OF LONGITUDINAL DATA (SES-8016383)*; 24 MONTHS $105,088

HUNTER, W G; *THE USE OF STATISTICAL METHODS IN THE LEGAL SYSTEM (SES-8018418)*; 24 MONTHS $80,000

ERLANGER, HOWARD S, AND MELLI, MARYGOLD S; *THE DYNAMICS OF NEGOTIATION IN CIVIL CASE PROCESSING (SES-8024543)*; 24 MONTHS $102,806

TAEUBER, KARL E; *THE TREND IN RESIDENTIAL SEGREGATION (SES-8025543*)*; 24 MONTHS $39,996

EGERTON, FRANK N; *PHYTOGEOGRAPHY AND PLANT ECOLOGY IN THE DEVELOPMENT OF EVOLUTIONARY THEORY: THE CASE OF HEWETT C. WATSON (SES-8104773)*; 13 MONTHS $4,023

LINDBERG, DAVID C; *THEORIES OF CAUSATION AND THE PHYSICS OF LIGHT (SES-8105181)*; 12 MONTHS $4,963

DENEVAN, WILLIAM M; *DOCTORAL DISSERTATION RESEARCH IN GEOGRAPHY AND REGIONAL SCIENCE (SES-8107229)*; 13 MONTHS $2,460

SIEGEL, DANIEL M; *SCIENTIFIC JOURNAL ARTICLES AS UNIT CONTRIBUTIONS TO SPECIALTIES AND DISCIPLINES: CASE STUDIES FROM THE HISTORY OF PHYSICS, 1938-1960 (SES-8107973)*; 12 MONTHS $5,000

UNIVERSITY OF WISCONSIN-MILWAUKEE

GENSCH, DENNIS; *DEVELOPMENT OF CHOICE PROCESS THEORY: SEEKING INSIGHTS THROUGH EMPIRICAL INVESTIGATION (SES-8023490)*; 14 MONTHS $59,117

GENSCH, DENNIS; *DEVELOPMENT OF CHOICE PROCESS THEORY: SEEKING INSIGHTS THROUGH EMPIRICAL INVESTIGATION (SES-8023430 A01)*; $14,671

PORELL, FRANK W; *RESEARCH INITIATION: THE ECONOMIC DETERMINANTS AND UTILIZATION IMPACTS OF HOSPITAL CLOSURES (SES-8107308)*; 24 MONTHS $39,690

PERKINS, GEORGE M; *RESEARCH INITIATION: MEASUREMENT OF PRICE AND INCOME EFFECTS OF GRANTS IN A VARYING PARAMETERS MODEL (SES-8107349)*; 22 MONTHS $38,312

CUMMINS, ROBERT C; *EXPLANATORY STRATEGY AND METHODOLOGY IN PSYCHOLOGY (SES-8108211)*; 12 MONTHS $5,000

BEHAVIORAL AND NEURAL SCIENCES

ALASKA

UNIVERSITY OF ALASKA FAIRBANKS CAMPUS

KRAUSS, MICHAEL E; *ALASKA NATIVE LANGUAGES DICTIONARY PROJECT (BNS-8023635)*; 12 MONTHS $138,417

ARIZONA

ARIZONA STATE UNIVERSITY

RUTOWSKI, RONALD L; *REPRODUCTIVE BEHAVIOR OF TWO AGRICULTURAL PEST SPECIES OF PIERID BUTTERFLIES (BNS-7811211 A01*)*; 24 MONTHS $32,500

FOSTER, BRIAN L; *A NETWORK APPROACH TO SOCIAL EXCHANGE (BNS-8013507)*; 18 MONTHS $64,000

MERLAN, FRANCESCA C; *THE MELPA LANGUAGE: STRUCTURE AND SOCIAL FUNCTIONS (BNS-8024174)*; 24 MONTHS $74,397

UNIVERSITY OF ARIZONA-COLLEGE OF MEDICINE

DUCKLES, SUE P; *UNIQUE ASPECTS OF CEREBROVASCULAR ADRENERGIC NERVES (BNS-7924750 A01)*; 12 MONTHS $49,970

UNIVERSITY OF ARIZONA

FERGUSON, C W; *DENDROCHRONOLOGY OF BRISTLECONE PINE (EAR-8018687*)*; 12 MONTHS $20,000

DAMON, PAUL E; *CALIBRATION OF THE RADIOCARBON TIME SCALE (OZS-8022250*)*; 18 MONTHS $10,389

JELINEK, ARTHUR J; *PALEOLITHIC RESEARCH IN FRANCE (BNS-8025965)*; 12 MONTHS $13,365

BELL, JAN R; *ETHNOGRAPHIC RECORDINGS (BNS-8105374)*; 12 MONTHS $20,565

CALIFORNIA

ADDICTION RESEARCH FOUNDATION INC

GOLDSTEIN, AVRAM; *DEVELOPMENT OF SPECIFIC ANTIBODIES FOR DYNORPHIN PEPTIDES (BNS-8107237)*; 24 MONTHS $90,000

CALIFORNIA INSTITUTE OF TECHNOLOGY

SCUDDER, THAYER; *LONGITUDINAL STUDY OF HUMAN ADAPTATION UNDER CONDITIONS OF STRESS AND RAPID CHANGE (BNS-8100043*)*; 24 MONTHS $110,000

CENTER FOR ADV STUDY IN THE BEHAVIORAL SCIENCE

LINDZEY, GARDNER, AND CUTLER, PRESTON S; *INTERDISCIPLINARY RESEARCH AT THE CENTER FOR ADVANCED STUDY IN THE BEHAVIORAL SCIENCES (BNS-7622943 A04*)*; 12 MONTHS $500,000

CITY OF HOPE NATIONAL MEDICAL CENTER

HAMMERSCHLAG, RICHARD; *INITIATION OF FAST AXONAL TRANSPORT (BNS-7813029 A02)*; 12 MONTHS $50,473

MCAFEE, DONALD A; *THE NEUROBIOLOGY OF SYMPATHETIC NEURONS (BNS-7912394 A02)*; 12 MONTHS $56,000

INSTITUTES OF MEDICAL SCIENCES

KELLER, EDWARD L; *VESTIBULAR-VISUAL INTERACTION IN THE CEREBELLAR VERMIS DURING SMOOTH PURSUIT EYE MOVEMENTS (BNS-8107111)*; 12 MONTHS $50,931

PITZER COLLEGE

MUNROE, RUTH H, AND MUNROE, ROBERT L; *SOCIOBEHAVIORAL FACTORS IN ROLE DETERMINATION ACROSS CULTURES (BNS-7923535 A01)*; 12 MONTHS $37,632

SALK INSTITUTE FOR BIOLOGICAL STUDIES

STEINBACH, JOSEPH H; *FUNCTION AND DISTRIBUTION OF ACETYLCHOLINE RECEPTORS (BNS-7906013 A02)*; 12 MONTHS $65,000

BELLUGI, URSULA; *THE STRUCTURED USE OF SPACE AND MOVEMENT IN A VISUAL-MANUAL LANGUAGE (BNS-8111479)*; 18 MONTHS $144,960

SANTA BARBARA MUSEUM OF NATURAL HISTORY

HUDSON, D TRAVIS; *PRESERVATION OF SOUTHWESTERN AMERICAN INDIAN TEXTILES (BNS-8105397)*; 12 MONTHS $14,175

SPEECH COMMUNICATIONS RESEARCH LABORATORY

LEA, WAYNE A; *INTONATIONAL CORRELATES OF LINGUISTIC STRUCTURES (BNS-7825016 A02)*; 12 MONTHS $69,997

STANFORD UNIVERSITY-SCHOOL OF MEDICINE

SHOOTER, ERIC M; *THE BIOSYNTHESIS OF NERVE GROWTH FACTOR (BNS-7914088 A02)*; 12 MONTHS $47,332

SARGENT, PETER B; *SYNAPSE FORMATION BETWEEN NEURONS IN VIVO (BNS-7924486 A01)*; 12 MONTHS $55,482

STANFORD UNIVERSITY

GOODMAN, COREY S; *EMBRYONIC DEVELOPMENT OF IDENTIFIED NEURONS IN VIVO (BNS-7904670 A02)*; 12 MONTHS $65,000

LEPPER, MARK R; *EXTRINSIC CONSTRAINTS AND INTRINSIC MOTIVATION (BNS-7914118 A01)*; 12 MONTHS $56,736

FERGUSON, CHARLES A, AND HUNTINGTON, DOROTHY A; *PHONOLOGICAL PRECURSORS TO EARLY SPEECH (BNS-7924167 A01)*; 16 MONTHS $138,274

BOWER, GORDON H; *PICTORIAL REPRESENTATIONS IN ADULTS AND CHILDREN (BNS-8009012 A01)*; 12 MONTHS $29,370

SHEPARD, ROGER N; *PROBLEMS OF REPRESENTATION IN COGNITIVE PSYCHOLOGY (BNS-8005517 A01)*; 12 MONTHS $99,783

CLARK, EVE V; *WORD FORMATION IN LANGUAGE ACQUISITION: NEW MEANINGS AND NEW FORMS (BNS-8007349 A01)*; 12 MONTHS $30,861

SKINNER, G WILLIAM, AND KO, JULIA K; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8007592)*; 18 MONTHS $8,410

WINE, JEFFREY J; *CELLULAR ANALYSIS OF SENSORY INTERNEURONS (BNS-8015583)*; 12 MONTHS $60,000

KENDIG, JOAN J; *EXCITABLE CELL FUNCTION AT HYPERBARIC PRESSURE (BNS-8020497)*; 12 MONTHS $59,999

RICK, JOHN W; *PREHISTORIC HUNTER-GATHERERS OF THE HIGH PERUVIAN ANDES (BNS-8022748)*; 24 MONTHS $101,069

BEFU, HARUMI, AND STEARNS, ROBERT D; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8024162)*; 12 MONTHS $9,942

SAG, IVAN A, AND WASOW, THOMAS; *PHRASE STRUCTURE GRAMMAR AND NATURAL LANGUAGE (BNS-8102406)*; 12 MONTHS $40,994

THOMPSON, RICHARD F; *NEUROBIOLOGICAL ANALYSIS OF PLASTICITY (BNS-8106648)*; 12 MONTHS $65,633

COLLIER, JANE F, AND MADDOX, RICHARD; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8107146)*; 18 MONTHS $6,719

HESS, ROBERT D; *FAMILY ORIGINS OF SCHOOL ACHIEVEMENT IN JAPAN AND THE UNITED STATES: A FOLLOW-UP STUDY (BNS-8107542)*; 24 MONTHS $90,000

WINE, JEFFREY J; *LOCAL CIRCUIT NEURONS (B'S-8112431)*; 12 MONTHS $58,000

SKINNER, G WILLIAM; *SIBLING DIFFERENTIATION AND KINSHIP SYSTEMS (BNS-8112849)*; 12 MONTHS $40,615

PINKER, STEVEN; *MENTAL REPRESENTATION OF 3-D SPACE (BNS-8114916*)*; 17 MONTHS $30,254

KRISTT, DONALD A; *NEURONAL CIRCUITRY IN THE INFANT CEREBRAL CORTEX: AN ANATOMICAL STUDY (BNS-8140895)*; 12 MONTHS $37,500

UNIVERSITY OF CALIFORNIA, BERKELEY

BERLIN, BRENT, AND PATTON, JAMES L; *FIELD RESEARCH IN ETHNOBIOLOGICAL ANTHROPOLOGY (BNS-7617485 A04)*; 12 MONTHS $5,009

POSTMAN, LEO J; *CONDITIONS THAT RETARD FORGETTING (BNS-7723841 A03)*; 12 MONTHS $27,802

DE VALOIS, RUSSELL L; *PHYSIOLOGICAL AND PSYCHOPHYSICAL STUDIES OF SPATIAL VISION (BNS-7806171 A04)*; 12 MONTHS $86,000

ROWELL, THELMA E; *ADOLESCENCE AND EARLIER SOCIAL DEVELOPMENT (BNS-7815037 A02)*; 12 MONTHS $75,037

ERVIN-TRIPP, SUSAN; *SOCIAL DEVELOPMENT AND COMMUNICATIVE STRATEGIES (BNS-7826539 A02*)*; 12 MONTHS $63,018

DOLHINOW, PHYLLIS C; *MOTHER LOSS AND AD PTION (BNS-7901012 A02)*; 12 MONTHS $28,934

ROBERTS, SETH D; *PROPERTIES AND FUNCTION OF A TIMING SYSTEM (BNS-7908839 A02)*; 12 MONTHS $32,509

STENT, GUNTHER S; *FUNCTION AND ONTOGENY OF THE LEECH NERVOUS SYSTEM (BNS-7912400 A01)*; 12 MONTHS $55,000

CURTIS, GARNISS H; *K-AR RADIOISOTOPE DATING AND INVESTIGATION OF FOSSIL HOMINOID AND HOMINID SITES (BNS-7919798 A01)*; 12 MONTHS $49,890

BARLOW, GEORGE W; *INTEGRATION OF AGONISTIC BEHAVIOR (BNS-7924081 A01)*; 12 MONTHS $61,177

RILEY, DONALD A; *INFORMATION ACQUISITION AND SHORT-TERM MEMORY (BNS-7924499 A01)*; 12 MONTHS $43,662

HOWELL, F CLARK; *EXCAVATION OF AN EARLY HUMAN SETTLEMENT (BNS-7926707 A01)*; 18 MONTHS $110,859

SLOBIN, DAN I; *CROSS-LINGUISTIC STUDY OF LANGUAGE ACQUISITION (BNS-8009340 A01)*; 12 MONTHS $10,521

GLICKMAN, STEPHEN E, AND HOLEKAMP, KAY; *DOCTORAL DISSERTATION RESEARCH IN PSYCHOBIOLOGY (BNS-8020080)*; 18 MONTHS $9,200

CALDWELL, ROY L; *CAUSES OF INDIVIDUAL VARIATION IN AGGRESSIVE BEHAVIOR (BNS-8023414)*; 12 MONTHS $43,532

OBERLANDER, THEODORE M; *USE OF ROCK VARNISH IN ANALYSIS OF PALEOENVIRONMENTS (SES-8024555*)*; 19 MONTHS $14,945

WILSON, ALLAN C; *SYSTEMATIC BIOLOGY OF PRIMATES (DEB-8112419*)*; 12 MONTHS $50,000

UNIVERSITY OF CALIFORNIA, DAVIS

MULLONEY, BRIAN; *GENERATION OF METACHRONAL MOTOR PATTERNS IN SEGMENTAL NERVOUS SYSTEMS (BNS-7810516 A03)*; 24 MONTHS $81,375

STAMPS, JUDY A; *ECOLOGICAL AND EVOLUTIONARY FACTORS SHAPING JUVENILE SOCIAL BEHAVIOR (BNS-7907241 A02)*; $9,689

RODMAN, PETER S, AND MITANI, JOHN C; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8023764)*; 24 MONTHS $7,998

HART, BENJAMIN L; *PSYCHOBIOLOGY OF FLEHMEN BEHAVIOR (BNS-8103574)*; 24 MONTHS $99,717

STAMPS, JUDY A, AND WALKER, JANETTE M; *DOCTORAL DISSERTATION RESEARCH IN PSYCHOBIOLOGY (BNS-8105366*)*; 12 MONTHS $2,165

HAMILTON, WILLIAM J, AND SMITH, DAVID G; *CONCEPTUAL MODEL OF BEHAVIORAL ADAPTATIONS IN A POLYGYNOUS PRIMATE (DEB-8112143*)*; 12 MONTHS $45,000

UNIVERSITY OF CALIFORNIA, IRVINE-CALIFORNIA COLLEGE OF MEDICINE

KITZES, LEONARD M; *ANATOMICAL STUDIES OF THE 'SECOND' SOMATOSENSORY SYSTEM (BNS-7825744 A02)*; 12 MONTHS $58,294

ROBERTSON, RICHARD T; *THALAMIC AND PARIETAL CONNECTIONS WITH LIMBIC CORTEX (BNS-7914223 A01)*; 12 MONTHS $46,945

UNIVERSITY OF CALIFORNIA, IRVINE

LYNCH, GARY S; *NEUROBIOLOGICAL ANALYSIS OF PLASTICITY (BNS-7617370 A06)*; 12 MONTHS $140,066

LENHOFF, HOWARD M; *GLUTATHIONE RECEPTOR OF HYDRA (BNS-7810209 A02)*; 12 MONTHS $59,997

KILLACKEY, HERBERT P; *DEVELOPMENT AND PLASTICITY OF THE RAT'S TRIGEMINAL SYSTEM (BNS-7824655 A02)*; 12 MONTHS $59,989

WEXLER, KENNETH N, AND CULICOVER, PETER W; *ACQUISITION CONSTRAINTS ON THEORY OF LANGUAGE STRUCTURE (BNS-7827044 A03)*; 12 MONTHS $26,639

MARSHALL, JOHN F; *SYNAPTIC PLASTICITY IN RECOVERY FROM DOPAMINE NEURON DAMAGE (BNS-7914092 A02)*; 12 MONTHS $44,000

POO, MU-MING; *ELECTROPHORESIS OF MUSCLE MEMBRANE RECEPTORS IN SITU (BNS-8012348 A01)*; 12 MONTHS $83,000

LEON, MICHAEL A; *RESPONSES TO ENERGETIC STRESS DURING LACTATION (BNS-8023107)*; 36 MONTHS $174,930

RIBAK, CHARLES E; *NEURONAL CIRCUITRY IN THE HIPPOCAMPAL DENTATE GYRUS (BNS-8023606)*; 24 MONTHS $120,000

FRASER, SCOTT E; *THE ROLE OF CELL COMMUNICATION IN PATTERNED NEURAL CONNECTIONS (BNS-8023638)*; 12 MONTHS $70,000

BURTON, MICHAEL L; *CAUSES AND CONSEQUENCES OF THE SEXUAL DIVISION OF LABOR: A CROSS-CULTURAL ANALYSIS (BNS-8023904)*; 24 MONTHS $85,699

LYNCH, GARY S; *NEUROBIOLOGICAL STUDIES OF SYNAPTIC PLASTICITY (BNS-8112150)*; 12 MONTHS $24,300

UNIVERSITY OF CALIFORNIA, LOS ANGELES

GORSKI, ROGER A; *NEUROCHEMICAL MECHANISMS UNDERLYING LORDOSIS BEHAVIOR (BNS-7820025 A01)*; 12 MONTHS $38,130

WOODY, CHARLES D; *ELECTROPHYSIOLOGICAL STUDIES OF CONSEQUENCES OF STIMULUS ASSOCIATIONS ON BRAIN AND BEHAVIOR (BNS-7824146 A03)*; 12 MONTHS $35,274

CHASE, MICHAEL H; *SYNAPTIC CONTROL OF LUMBAR MOTONEURON MEMBRANE POTENTIAL DURING SLEEP AND WAKEFULNESS (BNS-7912897 A02)*; 12 MONTHS $60,000

HERSCHMAN, HARVEY R; *DOES EPIDERMAL GROWTH FACTOR MODULATE NEURAL FUNCTIONS (BNS-7913827 A02)*; 12 MONTHS $56,000

FROMKIN, VICTORIA A; *THE RELATIONSHIP BETWEEN LANGUAGE AND COGNITION IN DEVELOPMENT (BNS-7926659 A01)*; 12 MONTHS $51,848

ZAIDEL, ERAN; *HEMISPHERIC SPECIALIZATION OF HIGHER FUNCTIONS IN MAN (BNS-7929177 A01)*; 12 MONTHS $58,000

NARINS, PETER M; *AUDITORY SIGNAL RESOLUTION IN HIGH-LEVEL NOISE (BNS-8005258 A01)*; 12 MONTHS $33,054

ARNOLD, ARTHUR P; *ONTOGENY OF SEXUALLY DIMORPHIC NEURAL CIRCUITS (BNS-8006798 A01)*; 12 MONTHS $70,000

ECKERT, ROGER; *IONIC MECHANISMS IN NORMAL AND GENETICALLY MODIFIED MEMBRANES (BNS-8012346)*; 12 MONTHS $60,968

WENZEL, BERNICE M, AND HUTCHISON, LARRY V; *OLFACTION IN PROCELLARIIFORM BIRDS (BNS-8013049 A01)*; 12 MONTHS $43,643

LADEFOGED, PETER N, AND FROMKIN, VICTORIA A; *PHONETIC DIFFERENCES WITHIN AND BETWEEN LANGUAGES (BNS-8023110)*; 12 MONTHS $109,999

MUNRO, PAMELA; *A SYMPOSIUM ON SWITCH-REFERENCE AND UNIVERSAL GRAMMAR; MAY, 1981 (BNS-8024168)*; 6 MONTHS $6,555

ANDERSEN, ROGER W; *EUROPEAN-NORTH AMERICAN WORKSHOP ON CROSS-LINGUISTIC SECOND LANGUAGE ACQUISITION RESEARCH; 9/7-16, 1981; LOS ANGELES, CA (BNS-8105747)*; 9 MONTHS $29,998

BROWN, PATRICIA E, AND GRINNELL, ALAN D; *ECHOLOCATION AND COMMUNICATION (BNS-8106550)*; 12 MONTHS $40,703

FAIRCHILD, HALFORD H; *RESEARCH INITIATION- THE EFFECTS OF PROSOCIAL TELEVISION ON INTERGROUP ATTITUDES AND BEHAVIORS (BNS-8107856)*; 12 MONTHS $17,982

UNIVERSITY OF CALIFORNIA, RIVERSIDE

BAKER, MARY ANN; *RESPONSES OF MAMMALS TO THE THERMAL ENVIRONMENT: HEAT, EXERCISE AND DEHYDRATION (BNS-7901006 A01)*; $9,850

PETRINOVICH, LEWIS F; *BEHAVIORAL ADAPTATION IN A NATURAL SETTING (BNS-7914136 A01)*; 12 MONTHS $43,635

FULLER, CHARLES A; *THE NEURAL BASIS FOR THE CIRCADIAN CONTROL OF TEMPERATURE REGULATION (BNS-7924412 A01)*; 12 MONTHS $49,626

TAYLOR, R E; *SAMPLE PREPARATION FOR RADIOCARBON DATING BY PARTICLE ACCELERATORS (BNS-8011764)*; 12 MONTHS $114,568

OLSEN, RICHARD W; *NEUROACTIVE DRUGS AND GAMMA-AMINOBUTYRIC ACID (BNS-8019722)*; 12 MONTHS $62,000

WILSON, PAUL D; *RETINOGENICULATE ORGANIZATION IN THE NORTH AMERICAN OPOSSUM (BNS-8021602)*; 24 MONTHS $73,503

TAYLOR, R E; *CONFERENCE ON NEEDS AND PRIORITIES FOR DATING RESEARCH IN ARCHAEOLOGY IN 1980'S, JUNE 10-12, WASH., D.C. (BNS-8023571)*; 12 MONTHS $19,582

BAKER, THOMAS C; *CHEMOKINETIC MECHANISMS OF DISTANT PHEROMONE-SOURCE LOCATION (BNS-8102168)*; 24 MONTHS $28,310

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

HEILIGENBERG, WALTER F; *PERCEPTION AND EVALUATION OF ELECTRIC STIMULI (BNS-7818833 A02)*; 12 MONTHS $30,100

UNIVERSITY OF CALIFORNIA, SAN DIEGO

SELVERSTON, ALLEN I; *NEURAL INTEGRATION AND GEOMETRY IN THE STOMATOGASTRIC GANGLION (BNS-7825549 A02)*; 12 MONTHS $50,000

ELMAN, JEFFREY; *SENSORY VERSUS COGNITIVE COMPONENTS OF SPEECH PERCEPTION (BNS-7901670 A02)*; 12 MONTHS $33,924

GEYER, MARK A; *CYTOFLUORIMETRIC STUDIES OF RAPHE NEURONS (BNS-7904676 A02)*; 12 MONTHS $40,407

MANDLER, GEORGE; *ORGANIZATION AND STRUCTURE IN MEMORY (BNS-7915336 A02)*; 12 MONTHS $40,551

SPITZER, NICHOLAS C; *DEVELOPMENT OF REFLEX BEHAVIOR IN A SIMPLE NERVOUS SYSTEM (BNS-7923459 A01)*; 12 MONTHS $70,000

MCCLELLAND, JAMES L; *INFORMATION PROCESSING AND READING BASED ON THE CASCADE MODEL (BNS-7924063 A01)*; 12 MONTHS $36,109

BRADBURY, JACK W; *EVOLUTION OF COOPERATIVE BEHAVIOR (DEB-8001165 A01*)*; 12 MONTHS $20,566

HILLYARD, STEVEN A, AND KUTAS, MARTA; *SEMANTIC PROCESSING AND EVENT-RELATED BRAIN WAVES (BNS-8005525 A01)*; 12 MONTHS $65,638

D'ANDRADE, ROY G; *PERSON PERCEPTION AND SOCIOCULTURAL CONTEXT (BNS-8005731 A01)*; 12 MONTHS $43,049

BULLOCK, THEODORE H; *OCTAVOLATERALIS SYSTEMS AND CENTRAL SENSORY PROCESSING (BNS-8010839)*; 12 MONTHS $88,000

MANDLER, JEAN M; *DEVELOPMENT OF SEMANTIC AND VISUAL ORGANIZATION (BNS-8109657)*; 26 MONTHS $117,000

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO-SCHOOL OF MEDICINE

GORDON, ADRIENNE S; *PHOSPHORYLATION OF THE ACETYLCHOLINE RECEPTOR (BNS-8013074 A01)*; 12 MONTHS $49,987

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

REICHARDT, LOUIS F; *NERVE FUNCTION IN CULTURE (BNS-8100342)*; 12 MONTHS $53,000

GLAZER, ELLYN J, AND BASBAUM, ALLAN I; *ULTRASTRUCTURAL ANALYSIS OF PAIN CONTROL SYSTEMS IN THE SPINAL CORD (BNS-8104486)*; 12 MONTHS $58,000

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

REVLIN, RUSSELL; *COGNITIVE PROCESSES IN CATEGORICAL REASONING (BNS-7824763 A02)*; 14 MONTHS $38,929

HATCH, ELVIN; *SOCIAL EFFECTS OF THE INDUSTRIALIZATION OF FARMING (BNS-7923750)*; 12 MONTHS $44,990

HATCH, ELVIN; *SOCIAL EFFECTS OF THE INDUSTRIALIZATION OF FARMING (BNS-7923750 A01)*; $2,868

JOCHIM, MICHAEL A; *FEDERSEE PROJECT (BNS-8005097 A01)*; 12 MONTHS $61,753

HARDING, THOMAS G, AND O'MEARA, J TIMOTHY; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8013505)*; 18 MONTHS $6,853

MC CLINTOCK, CHARLES G; *THE EFFECTS OF COGNITION, REWARD, AND SOCIAL INTERDEPENDENCE UPON CHILDREN'S JUDGMENTS OF FAIRNESS (BNS-8016214)*; 24 MONTHS $80,156

VOORHIES, BARBARA, AND PFEIFFER, LINDA; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8017169)*; 7 MONTHS $9,996

MACKEY, CAROL J; *POLITICAL INTEGRATION IN PREHISPANIC PERU (BNS-8023639)*; 12 MONTHS $68,385

KLATZKY, ROBERTA L, AND MARTIN, GALE L; *DOCTORAL DISSERTATION RESEARCH IN MEMORY AND COGNITIVE PROCESSES (BNS-8024159)*; 12 MONTHS $2,610

VOORHIES, BARBARA, AND HOSLER, DOROTHY; *DOCTORAL DISSERTATION IN ANTHROPOLOGY (BNS-8025082)*; 12 MONTHS $8,645

BROWN, DONALD E, AND CHAIKEN, MIRIAM S; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8100055)*; 9 MONTHS $2,930

UNIVERSITY OF SOUTHERN CALIFORNIA

HELLIGE, JOSEPH B; *SPECIALIZATION OF THE RIGHT AND LEFT CEREBRAL HEMISPHERES (BNS-7924445 A01)*; 12 MONTHS $38,252

CLIFF, NORMAN; *ORDINAL SCALING METHODS FOR BINARY DATA (BNS-8108145)*; 24 MONTHS $92,489

HYMAN, LARRY M; *THE PROSODIC STRUCTURE OF LUGANDA (BNS-8112739)*; 12 MONTHS $5,000

COLORADO

COLORADO STATE UNIVERSITY

ELLIS, JAMES E, AND SWIFT, DAVID M; *THE ECOLOGY OF SUBSISTENCE PASTORALISM (DEB-8004182 A01*)*; 12 MONTHS $39,709

UNIVERSITY OF COLORADO AT BOULDER

MAIER, STEVEN F; *LEARNED HELPLESSNESS: LIMITS, ETIOLOGY, APPLICATIONS (BNS-7800508 A03)*; 12 MONTHS $47,173

PLOMIN, ROBERT J; *VIDEOTAPE ANALYSIS OF BEHAVIORAL DEVELOPMENT IN ONE TWO- AND THREE-YEAR OLD ADOPTED AND 'CONTROL' CHILDREN (BNS-7826304 A02)*; 12 MONTHS $46,995

BEKOFF, ANNE C; *NEURAL BASIS FOR THE DEVELOPMENT OF COORDINATED BEHAVIORS (BNS-7913826 A01)*; 12 MONTHS $43,998

DUBIN, MARK W; *DEVELOPMENT OF NEURAL NETWORKS IN THE VERTEBRATE VISUAL SYSTEM (BNS-7914110 A02)*; 12 MONTHS $41,620

BEKOFF, MARC; *SOCIAL ECOLOGY OF FREE-RANGING COYOTES (BNS-7923463 A01*)*; 12 MONTHS $17,615

HEALY, ALICE F; *THE SIZE AND THE NATURE OF READING UNITS (BNS-8025020)*; 19 MONTHS $71,415

UNIVERSITY OF DENVER

MACWHINNEY, BRIAN, AND BATES, ELIZABETH A; *THE IMPACT OF POINT-MAKING ON SYNTACTIC STRUCTURE (BNS-7905755 A02)*; 12 MONTHS $47,150

CONNECTICUT

CONNECTICUT COLLEGE

KENDON, ADAM; *A MANUAL LANGUAGE IN A SPEAKING COMMUNITY--WARLPIRI SIGN LANGUAGE (BNS-8024173)*; 15 MONTHS $31,224

HASKINS LABORATORIES INC

FOWLER, CAROL A; *ARTICULATORY AND PERCEPTUAL BASES FOR STRESS-TIMING IN ENGLISH SPEECH (BNS-8111470)*; 24 MONTHS $60,000

TRINITY COLLEGE

HABERLANDT, KARL F; *THE ROLE OF SCHEMATA IN TEXT COMPREHENSION (BNS-8104958)*; 24 MONTHS $55,861

UNIVERSITY OF CONNECTICUT

WELLS, KENTWOOD D; *VOCAL COMMUNICATION IN NEOTROPICAL ANURAN AMPHIBIANS (BNS-8004516 A01)*; 12 MONTHS $20,000

FRANK, MARION E; *PERIPHERAL MECHANISMS IN GUSTATION (BNS-8112180)*; 12 MONTHS $56,541

PELTO, PERTTI J, AND GUARNACCIA, PETER J; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8115081)*; 12 MONTHS $4,228

YALE UNIVERSITY-SCHOOL OF MEDICINE

SHEPHERD, GORDON M; *ODOR STIMULATION AND METABOLIC PATTERNS (BNS-7816545 A01)*; $13,925

DAVIS, MICHAEL; *NEURAL MODULATION OF THE STARTLE RESPONSE (BNS-7817421 A02)*; 12 MONTHS $28,472

LENTZ, THOMAS L; *NEUROMUSCULAR JUNCTION AND NEUROTROPHIC MECHANISMS (BNS-7912898 A01)*; 12 MONTHS $55,000

YALE UNIVERSITY

WAGNER, ALLAN R; *EPISODIC INFORMATION PROCESSING IN ASSOCIATIVE LEARNING (BNS-7716886 A03)*; $5,158

KNOWLTON, NANCY; *THE EVOLUTION OF FIGHTING BEHAVIOR (BNS-7904747 A02)*; 12 MONTHS $32,025

SCARR, SANDRA W; *FAMILY DETERMINANTS OF EDUCATIONAL AND OCCUPATIONAL CHOICES (BNS-7911232 A01)*; 6 MONTHS $6,800

WAGNER, ALLAN R; *EPISODIC INFORMATION PROCESSING IN ASSOCIATIVE LEARNING (BNS-8023999)*; 12 MONTHS $62,998

WELLS, RULON S; *DOCTORAL DISSERTATION RESEARCH IN LINGUISTICS (BNS-8105359)*; 12 MONTHS $4,670

SEELEY, THOMAS D; *DIVISION OF LABOR AND COMMUNICATION IN HONEY BEES (BNS-8106391)*; 24 MONTHS $44,977

SCHWARTZ, GARY E; *PSYCHOPHYSIOLOGY OF EMOTION (BNS-8112408)*; 24 MONTHS $110,000

RICHARD, ALISON F, AND KELLEY, JOHN; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8114444)*; 9 MONTHS $3,600

DELAWARE

UNIVERSITY OF DELAWARE

IZARD, CARROLL E; *EMOTION EXPRESSIONS IN EARLY DEVELOPMENT (BNS-8111832)*; 15 MONTHS $60,000

DISTRICT OF COLUMBIA

AMERICAN UNIVERSITY

SLOTNICK, BURTON M; *ANATOMICAL BASIS OF OLFACTORY DISCRIMINATION (BNS-8004600)*; 12 MONTHS $59,960

CATHOLIC UNIVERSITY OF AMERICA

CHOCK, PHYLLIS P, AND LANDSMAN, GAIL H; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8106997)*; 12 MONTHS $4,640

GALLAUDET COLLEGE

WOODWARD, JAMES C; *UNIVERSALITY AND UNIQUENESS IN SIGN LANGUAGES: PROVIDENCE ISLAND SIGN LANGUAGE (BNS-7680056 A04)*; 12 MONTHS $17,107

GEORGE WASHINGTON UNIVERSITY

SUTTON, DOUGLAS G; *ENVIRONMENTAL ARCHAEOLOGY IN THE MAGELLAN STRAITS REGION (BNS-8103915)*; 6 MONTHS $2,894

GEORGETOWN UNIVERSITY-SCHOOL OF MEDICINE

DRETCHEN, KENNETH L; *CYCLIC NUCLEOTIDES AND NEUROMUSCULAR TRANSMISSION (BNS-7836849 A02)*; 12 MONTHS $64,000

HOWARD UNIVERSITY-COLLEGE OF MEDICINE

SOBRIAN, SONYA K; *NEUROCHEMICAL SUBSTRATES OF THE HYPERACTIVE CHILD SYNDROME (BNS-7816520 A01)*; 12 MONTHS $36,304

HOWARD UNIVERSITY

MASSARI, V JOHN; *COLLATERAL SPROUTING OF MONOAMINERGIC AND SUBSTANCE P NEURONS IN THE SPINAL CORD (BNS-7923451 A01)*; 12 MONTHS $45,000

NATIONAL ACADEMY OF SCIENCES

MORGAN, COUNCILMA; *U.S. NATIONAL COMMITTEE FOR THE INTERNATIONAL BRAIN RESEARCH ORGANIZATION (BNS-8023333)*; 12 MONTHS $15,730

NATIONAL INSTITUTE OF BUILDING SCIENCES

MATZKE, FRANK J; *A WORKSHOP ON IMPROVING ACCESS TO SCIENTIFIC AND TECHNICAL INFORMATION RELATED TO THE DESIGN OF THE BUILT ENVIRONMENT (BNS-8020645)*; 6 MONTHS $5,000

SMITHSONIAN INSTITUTION

DITTUS, WOLFGANG P; *PRIMATE SOCIAL ORGANIZATION IN RELATION TO DEMOGRAPHY, GENEALOGY AND ENVIRONMENT (BNS-7924057 A01)*; 12 MONTHS $52,469

SILLEN, ANDREW; *STRONTIUM AND DIET IN THE LEVANTINE EPIPALEOLITHIC AND NEOLITHIC (BNS-8111827)*; 12 MONTHS $51,000

FLORIDA

FLORIDA STATE UNIVERSITY

BERKLEY, KAREN J; *ULTRASTRUCTURAL INVESTIGATIONS OF THE INCORPORATION AND TRANSPORT OF LEUCINE AND PROLINE (BNS-7903424 A02)*; 12 MONTHS $60,000

CANCALON, PAUL; *CHARACTERIZATION OF OLFACTORY RECEPTOR SITES (BNS-8026650)*; 24 MONTHS $44,999

WILLIAMS, THEODORE P; *SINGLE VISUAL PHOTORECEPTORS (BNS-8105731)*; 12 MONTHS $70,000

UNIVERSITY OF FLORIDA-COLLEGE OF MEDICINE

BROWNELL, WILLIAM E; *INTRACOCHLEAR IONIC CURRENTS (BNS-8112174)*; 24 MONTHS $100,000

UNIVERSITY OF FLORIDA-FLORIDA STATE MUSEUM

DEEVEY, EDWARD S; *LATE PLEISTOCENE SEDIMENTOLOGY AND PALEOECOLOGY OF PETEN LAKE DISTRICT, GUATEMALA (EAR-7926330 A01*)*; 14 MONTHS $15,000

UNIVERSITY OF FLORIDA

DEWSBURY, DONALD A; *EXPERIMENTAL ANALYSIS OF THE BEHAVIOR OF A VARIETY OF MAMMALS (BNS-7805173 A03)*; 12 MONTHS $54,700

TEAS, DONALD C; *SPECIFICATION OF AUDITORY NERVE RESPONSES TO BRIEF ACOUSTIC SIGNALS (BNS-8021394)*; 12 MONTHS $47,926

BROWNELL, WILLIAM E; *ACQUISITION OF EQUIPMENT FOR A MICROPROCESSOR DEVELOPMENT LABORATORY (BNS-8022259)*; 12 MONTHS $40,031

WALKER, THOMAS J; *A MODEL SYSTEM FOR ACOUSTICAL PAIR FORMATION (BNS-8103554)*; 36 MONTHS $85,600

LIEBERMAN, LESLIE S; *BIOCULTURAL CORRELATES OF MALNUTRITION (BNS-8104679)*; 24 MONTHS $85,020

RICE, PRUDENCE M; *TRACE ELEMENT ANALYSIS OF OBSIDIAN (BNS-8111353)*; 18 MONTHS $19,991

GLADWIN, CHRISTINA H; *ADAPTIVE STRATEGIES, GOALS, AND DECISION MAKING OF FLORIDA'S SMALL FARMERS (BNS-8112424)*; 12 MONTHS $40,000

UNIVERSITY OF MIAMI-SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

MYRBERG, ARTHUR A; *DETERMINANTS OF SPATIAL ORGANIZATION AND REPRODUCTION (BNS-8112133)*; 24 MONTHS $80,000

UNIVERSITY OF MIAMI

EMILIANI, CESARE; *EXCAVATIONS AT LITTLE SALT SPRING, FLORIDA (BNS-7914249 A02)*; $14,529

CARVER, CHARLES S; *COOPERATIVE RESEARCH ON SELF-ATTENTION, EXPECTANCY, AND BEHAVIORAL REGULATION (BNS-8107236)*; 12 MONTHS $21,775

SCHNEIDERMAN, NEIL; *CNS MEDIATION OF BRADYCARDIA RESPONSES (BNS-8108539)*; 12 MONTHS $45,000

GEORGIA

EMORY UNIVERSITY

ZEILER, MICHAEL D; *A THEORY OF TIMING (BNS-8023248)*; 24 MONTHS $75,000

FRICKE, RUSSELL A; *NEURONAL MECHANISMS OF BEHAVIORAL DEVELOPMENT (BNS-8024013)*; 36 MONTHS $100,000

GORDON, THOMAS P; *ENDOCRINE CONTROL OF SEASONAL REPRODUCTION (BNS-8113248*)*; 12 MONTHS $70,864

EMORY UNIVERSITY-SCHOOL OF MEDICINE

SCOTT, JOHN W; *ANALYSIS OF THE OLFACTORY PROJECTIONS (BNS-8102175)*; 12 MONTHS $61,962

EMORY UNIVERSITY-YERKES REGIONAL PRIMATE RESEARCH CENTER

NADLER, RONALD D; *ENDOCRINE FUNCTION IN PRIMATES (BNS-7923015 A01)*; 12 MONTHS $55,000

GEORGIA INSTITUTE OF TECHNOLGY MAIN CAMPUS

CONLON, EDWARD J; *RESOURCE ALLOCATION WITH SUNK COSTS: A BEHAVIORAL APPROACH (BNS-8016275)*; 24 MONTHS $74,917

HAWAII

BERNICE P BISHOP MUSEUM

ROSE, ROGER G; *RENOVATION AND CONSERVATION OF THE BISHOP MUSEUM TAPA COLLECTION (BNS-8105387)*; 12 MONTHS $35,619

CENTER FOR CULTURAL&TECH INTERCHG EAST&WEST

KUNSTADTER, PETER; *SOCIOECONOMIC, DEMOGRAPHIC AND ENVIRONMENTAL CHANGE (BNS-7914093 A01)*; 12 MONTHS $38,872

UNIVERSITY OF HAWAII-MANOA

HSU, ROBERT W; *SOFTWARE SUPPORT FOR LEXICOGRAPHY (BNS-7924700)*; 20 MONTHS $55,426

GRIFFIN, P BION, AND GOODMAN, MADELEINE; *WOMEN HUNTERS IN A TROPICAL FORAGING SOCIETY (BNS-8014308)*; 36 MONTHS $71,331

LIEBAN, RICHARD W, AND GRAY, DENNIS; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8020227)*; 12 MONTHS $2,011

BILMES, JACOB; *DISCOURSE AND DECISION-MAKING IN COMPLEX ORGANIZATIONS (BNS-8103585)*; 18 MONTHS $49,353

COOKE, IAN M; *NEURAL PATTERNING: MECHANISMS AND NEUROHORMONAL ACTIONS (BNS-8107289)*; 12 MONTHS $62,981

HERMAN, LOUIS M; *DOLPHIN INFORMATION PROCESSING: LINGUISTIC COMPETENCIES (BNS-8109653)*; 24 MONTHS $109,798

ILLINOIS

FIELD MUSEUM OF NATURAL HISTORY

LEWIS, PHILLIP H, AND RABINEAU, PHYLLIS; *REORGANIZATION OF PACIFIC COLLECTION STORAGE (BNS-8104662)*; 24 MONTHS $168,800

LOYOLA UNIVERSITY OF CHICAGO

YOST, WILLIAM A; *PITCH OF COMPLEX STIMULI (BNS-7817414 A02)*; 12 MONTHS $29,219

BOWEN, RICHARD W; *TEMPORAL AND SPATIAL FACTORS IN HUMAN COLOR VISION (BNS-7817779 A02)*; 12 MONTHS $29,171

YOST, WILLIAM A; *BINAURAL PROCESSING OF TEMPORAL SEQUENCE (BNS-7906028 A02)*; 12 MONTHS $55,000

YOST, WILLIAM A; *PITCH OF COMPLEX STIMULI (BNS-8111035)*; 24 MONTHS $69,000

FAY, RICHARD R; *NEURAL MECHANISMS OF DIRECTIONAL HEARING (BNS-8111354)*; 24 MONTHS $71,280

BOWEN, RICHARD W; *TEMPORAL AND SPATIAL FACTORS IN HUMAN COLOR VISION (BNS-8111366)*; 36 MONTHS $91,260

LOYOLA UNIVERSITY OF CHICAGO-STRITCH SCHOOL OF MEDICINE

MC NULTY, JOHN A; *RHYTHMS, LIGHT AND PINEAL FUNCTION IN FISHES (BNS-7904245 A02)*; 12 MONTHS $37,320

NORTHWESTERN UNIVERSITY-CHICAGO CAMPUS-MEDICAL SCHOOL

GOLDMAN, ROBERT D; *THE NEURONAL CYTOSKELETON (BNS-8023922*)*; 12 MONTHS $40,000

NORTHWESTERN UNIVERSITY

SADE, DONALD S; *THE CAYO SANTIAGO PRIMATE FACILITY (BNS-7714882 A03)*; 12 MONTHS $96,330

HASTIE, REID, AND PENNINGTON, NANCY; *CIVIL JUSTICE: A THEORY-BASED ANALYSIS OF JUROR AND JURY PERFORMANCE (SES-8013002*)*; 24 MONTHS $58,741

WIGHTMAN, FREDERICK L; *AUDITORY SPACE PERCEPTION (BNS-8014144 A01)*; 12 MONTHS $65,877

TYLER, TOM R; *PSYCHOLOGICAL MEDIATORS OF EVENT IMPACT: COMPARING THE IMPORTANCE OF INFORMATIVENESS, MEMORABILITY AND AFFECTIVITY (BNS-8021295)*; 12 MONTHS $14,912

SUGARMAN, SUSAN; *CONCEPTUAL PROCESSES IN EARLY CHILDHOOD (BNS-8118223)*; 24 MONTHS $39,878

UNIVERSITY OF CHICAGO

GROBSTEIN, PAUL; *DEVELOPMENT OF NEURONAL CONNECTIVITY DURING ANURAN METAMORPHOSIS (BNS-7914122 A01)*; 12 MONTHS $36,114

KLEIN, RICHARD G; *LATE CENOZOIC PALEOECOLOGY IN SOUTHERN AFRICA (BNS-7916249 A01)*; 24 MONTHS $35,559

SHEVELL, STEVEN K; *MECHANISMS OF ADAPTATION IN SUPRATHRESHOLD VISUAL PERCEPTION (BNS-7924024 A01)*; 12 MONTHS $39,607

ARNOLD, STEVAN J; *BEHAVIORAL DETERMINANTS OF REPRODUCTIVE SUCCESS (BNS-8014151*)*; 24 MONTHS $47,109

PHILIPSON, MORRIS, AND BRENT, T D; *THE MIDDLE STONE AGE AT KLASIES RIVER MOUTH IN SOUTH AFRICA (BNS-8017812)*; 12 MONTHS $20,006

MCCLINTOCK, MARTHA; *ROLE OF BEHAVIOR IN THE CONTROL OF REPRODUCTIVE PROCESSES (BNS-8019496*)*; 36 MONTHS $113,497

FOGELSON, RAYMOND D, AND WALKER, AMELIA B; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8019939)*; 18 MONTHS $9,560

TUTTLE, RUSSELL H, AND CONNER, MICHAEL D; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8101089)*; 12 MONTHS $6,775

RICE, DON S; *HISTORICAL ECOLOGY IN THE CENTRAL PETEN, GUATEMALA (BNS-8105379)*; 12 MONTHS $23,197

SCHNEIDER, DAVID M, AND DELANEY, CAROL; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8109135)*; 12 MONTHS $5,082

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

ROSENBERGER, ALFRED L; *DEVELOPMENT OF PRIMATE SPECIES (BNS-8108359)*; 18 MONTHS $10,853

UNIVERSITY OF ILLINOIS AT URBANA

KOMORITA, SAMUEL S; *THE GENERALITY AND VALIDITY OF SOME THEORIES OF COALITION FORMATION (BNS-7911103 A01)*; 12 MONTHS $32,355

FENG, ALBERT S; *THE NEURAL BASIS OF SOUND LOCALIZATION IN AN ANURAN (BNS-7912271 A02)*; 12 MONTHS $25,568

DWECK, CAROL S; *THE DEVELOPMENT OF ACHIEVEMENT MOTIVATION: A COGNITIVE THEORY (BNS-7914252 A01)*; 12 MONTHS $26,287

GILLETTE, RHANOR; *CYCLIC AMP REGULATES NEURON PLASTICITY VIA CALCIUM (BNS-7918329 A01)*; 12 MONTHS $58,000

MEDIN, DOUGLAS L; *MEMORY PROCESSES AND CONTEXTUAL INFORMATION (BNS-7922678 A01)*; 12 MONTHS $30,668

ORTONY, ANDREW; *THE SIMILARITY/METAPHOR RELATION IN NATURAL LANGUAGE (BNS-8004541 A01)*; 12 MONTHS $45,871

NEWPORT, ELISSA L, AND SUPALLA, TED; *STRUCTURE AND ACQUISITION OF AMERICAN SIGN LANGUAGE (BNS-8013509)*; 30 MONTHS $5,010

SATINOFF, EVELYN; *BEHAVIORAL AND PHYSIOLOGICAL THERMOREGULATION (BNS-8022468)*; 12 MONTHS $55,162

CUNNINGHAM, CLARK E, AND EBERHARDT, NANCY J; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8108883)*; 6 MONTHS $5,950

UNIVERSITY OF ILLINOIS MEDICAL CTR AT CHICAGO

PAPPAS, GEORGE D; *MORPHOLOGICAL SUBSTRATES OF SYNAPTIC TRANSMISSION (BNS-8004688)*; 36 MONTHS $31,850

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

ALBERTS, JEFFREY R, AND GUBERNICK, DAVID J; *LEARNING STRATEGY AS AN ADAPTATION TO BEHAVIORAL DEVELOPMENT (BNS-7915116 A01)*; 24 MONTHS $49,994

TIMBERLAKE, WILLIAM D; *AN EQUILIBRIUM APPROACH TO LEARNED PERFORMANCE: EXTENSIONS TO MULTIPLE BEHAVIORS AND THE 24-HOUR ENVIRONMENT (BNS-7915117 A01)*; 6 MONTHS $4,230

PETERSEN, MICHAEL R; *COMPARATIVE STUDIES OF VOCAL-SOUND PERCEPTION (BNS-7924477 A01)*; 24 MONTHS $75,000

NEFF, WILLIAM D; *SENSORY DISCRIMINATION (BNS-8005728 A01)*; 12 MONTHS $38,000

ASLIN, RICHARD N; *DEVELOPMENT OF THE VISUAL SYSTEM IN HUMAN INFANTS (BNS-8013075 A01)*; 12 MONTHS $40,041

GUTH, SHERMAN L; *STUDIES OF HUMAN COLOR VISION (BNS-8022491)*; 12 MONTHS $49,987

PISONI, DAVID B; *ANALYSIS AND INTERPRETATION OF SPEECH SPECTROGRAMS (BNS-8023099)*; 12 MONTHS $19,300

FAZIO, RUSSELL H; *A PROCESS VIEW OF ATTITUDE-BEHAVIOR CONSISTENCY (BNS-8023901)*; 24 MONTHS $59,986

WIGHTMAN, R MARK; *ELECTROANALYTICAL METHODS IN NEUROCHEMISTRY (BNS-8100044)*; 12 MONTHS $55,000

SMITH, LINDA B; *DEVELOPMENT OF PERCEPTION AND CATEGORIZATION (BNS-8109888)*; 24 MONTHS $65,278

TREIMAN, REBECCA A; *PHONEMIC ANALYSIS ABILITY IN CHILDREN AND ADULTS (BNS-8109892)*; 24 MONTHS $59,969

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS

HAFNER, GARY S; *CELLULAR PROCESSES INVOLVED IN THE RENEWAL OF PHOTOPIGMENT CONTAINING MEMBRANE IN AN INVERTEBRATE PHOTORECEPTOR (BNS-8004587 A01)*; 12 MONTHS $50,600

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS-SCHOOL OF MEDICINE

SUTHERS, RODERICK A; *COMPARATIVE LARYNGEAL MECHANISMS FOR THE PRODUCTION OF ULTRASOUND (BNS-7905606 A01)*; 12 MONTHS $52,531

OCHS, SIDNEY; *AXOPLASMIC TRANSPORT: THE ROLE OF CALCIUM AND PROPERTIES OF THE TRANSPORT MECHANISM (BNS-7914029 A01)*; 12 MONTHS $55,000

SCHROEDER, DOLORES M; *ANATOMICAL ORGANIZATION OF THE INFRARED SYSTEM (BNS-8025024)*; 12 MONTHS $40,000

PURDUE UNIVERSITY

ALTMAN, JOSEPH; *DEVELOPMENTAL NEUROBIOLOGY (BNS-7708957 A03)*; 12 MONTHS $45,000

SORKIN, ROBERT D; *AUDITORY SIGNAL PROCESSING (BNS-7713503 A03)*; 12 MONTHS $3,510

GANDOUR, JACKSON T; *TONE PERCEPTION IN FAR EASTERN LANGUAGES (BNS-7905854 A01)*; 10 MONTHS $8,315

TOWNSEND, JAMES T; *MATHEMATICAL AND EMPIRICAL RESEARCH IN HUMAN INFORMATION PROCESSING (BNS-7920298 A01)*; 12 MONTHS $34,954

BAYER, SHIRLEY A; *ONTOGENY OF THE LIMBIC AND OLFACTORY SYSTEMS (BNS-7921303 A01)*; 12 MONTHS $43,475

CAPALDI, EGIDIO J; *SERIAL PATTERN LEARNING (BNS-9001171 A01)*; 12 MONTHS $36,140

PAK, WILLIAM L, AND MATSUMOTO, HIROYUKI; *EXCITATION MECHANISM IN THE PHOTORECEPTORS (BNS-9015599)*; 12 MONTHS $40,802

TUBIS, ARNOLD; *ANALYSES OF TWO- AND THREE-DIMENSIONAL COCHLEAR MODELS INCLUDING THE EFFECTS OF VISCOSITY, COCHLEAR GEOMETRY, AND MECHANICAL NON-LINEARITIES (BNS-9021539)*; 12 MONTHS $16,598

EAGLY, ALICE H; *GENDER DIFFERENCES IN INFLUENCEABILITY (BNS-9023311 A01)*; 12 MONTHS $47,950

NAKAJIMA, YASUKO, AND NAKAJIMA, SHIGEHIRO; *FUNCTIONAL MEMBRANE STRUCTURE OF SYNAPSES (BNS-8106673)*; 12 MONTHS $48,000

ALLEN, GEORGE D; *DEVELOPMENT OF PHONOLOGICAL RHYTHM IN CHILDREN'S SPEECH (BNS-8118456)*; 12 MONTHS $28,339

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

BLAUSTEIN, JEFFREY D; *NEUROENDOCRINE REGULATION OF BEHAVIOR (BNS-8013050 A01)*; $2,195

UNIVERSITY OF IOWA

GORMEZANO, ISIDORE; *CLASSICAL DEFENSE AND REWARD CONDITIONING (BNS-8005907 A01)*; 12 MONTHS $50,283

CACIOPPO, JOHN T; *SOCIAL PSYCHOPHYSIOLOGY: MEASURES OF COGNITIVE RESPONSE AND PERSUASION (BNS-8023589)*; 24 MONTHS $77,208

LIM, RAMON; *GLIA MATURATION FACTOR (BNS-8116770)*; 12 MONTHS $55,000

KANSAS

KANSAS STATE UNIVERSITY

KAMMER, ANN E; *SENSORY MODULATION OF CENTRAL NEURAL MECHANISMS COORDINATING RHYTHMIC MOVEMENT (BNS-7923096 A01)*; 3 MONTHS $9,772

CLARK, GEORGE R; *MOLLUSCAN GROWTH LINE ANALYSIS AND COASTAL ARCHAEOLOGY (BNS-8007903 A01)*; 12 MONTHS $19,764

UNIVERSITY OF KANSAS MAIN CAMPUS

ADAMS, RALPH N; *BIOGENIC AMINE RELEASE IN CNS TISSUE: ELECTROCHEMICAL MONITORING (BNS-7914226 A02)*; 12 MONTHS $41,623

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

OWSLEY, DOUGLAS W; *EFFECTS OF DISEASE AND NUTRITION ON SKELETAL DEVELOPMENT AND MORTALITY (BNS-8102650)*; 24 MONTHS $94,969

TULANE UNIVERSITY

HEALAN, DAN M; *ANALYSIS OF AN OBSIDIAN WORKSHOP (BNS-7924754 A01)*; 18 MONTHS $5,158

TOMPKINS, ROBERT; *CELL MARKERS FOR THE STUDY OF NEUROGENESIS IN XENOPUS (BNS-8023451)*; 24 MONTHS $100,000

MAINE

UNIVERSITY OF MAINE, ORONO

BONNICHSEN, ROBSON, BORNS, HAROLD W, AND DAVIS, RONALD B; *MUNSUNGUN LAKE RESEARCH PROJECT (BNS-8006452 A01)*; 12 MONTHS $38,220

MARYLAND

BUREAU OF THE CENSUS

LEVINE, DANIEL B; *SUPPORT FOR INTERAGENCY PANELS: EARLY CHILDHOOD RESEARCH AND DEVELOPMENT, AND DEVELOPMENT IN ADOLESCENCE (BNS-8005063 A01*)*; 12 MONTHS $10,000

CARNEGIE INSTITUTION OF WASHINGTON-CARNEGIE INSTITUTION OF WASHINGTON-MD

ROTUNDO, RICHARD L; *NEURAL CONTROL OF ACETYLCHOLINESTERASE GENE EXPRESSION (BNS-8015778 A01)*; 12 MONTHS $65,350

JOHN F KENNEDY INST FOR HANDICAPPED CHILDREN

SINGH, INDERJIT; *NEW ENZYME FOR CERAMIDE SYNTHESIS AND ITS ROLE IN MYELINATION (BNS-7923017 A01)*; 12 MONTHS $65,047

KISHIMOTO, YASUO; *ALKYLGALACTOLIPIDS AND MYELINATION (BNS-8022444)*; 12 MONTHS $64,659

JOHNS HOPKINS UNIVERSITY

SELIGER, HOWARD H, AND LALL, ABNER B; *SELECTION FACTORS FOR SPECTRAL CHARACTERISTICS OF VISION AND FOR THE COLORS OF BIOLUMINESCENCE (BNS-8012215)*; 12 MONTHS $61,578

HULSE, STEWART H; *SERIAL PATTERN LEARNING (BNS-8014137 A01)*; 12 MONTHS $34,446

SHIPMAN, PATTY L; *A SCANNING ELECTRON MICROSCOPE STUDY OF THE EFFECTS OF TAPHONOMIC EVENTS (BNS-8021397)*; 12 MONTHS $37,991

EGETH, HOWARD; *FACTORS AFFECTING JUROR ASSESSMENT OF EYEWITNESS TESTIMONY (BNS-8023670)*; 24 MONTHS $101,261

EGETH, HOWARD E; *ATTENTIONAL CONTROL OF PERCEPTUAL-MOTOR PERFORMANCE (BNS-8100842)*; 36 MONTHS $59,572

HARTIG, PAUL R; *BIOCHEMISTRY OF SEROTONIN AND DOPAMINE RECEPTORS (BNS-8108080)*; 12 MONTHS $45,000

MINTZ, SIDNEY W, AND CARO, DEBORAH A; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8113097)*; 12 MONTHS $6,525

JOHNS HOPKINS UNIVERSITY-SCHOOL OF MEDICINE

WALKER, ALAN C; *HOMINID DIET RECONSTRUCTION (BNS-7824199 A02)*; 12 MONTHS $24,920

GOLDSTEIN, MOISE H; *A NEUROPHYSIOLOGICAL STUDY OF SOUND LOCALIZATION (BNS-7924519 A01)*; 12 MONTHS $79,784

UNIFORMED SERVICES UNIV OF HEALTH SCIENCES

BAUM, ANDREW S, GATCHEL, ROBERT J, SINGER, JEROME E, LAKE, C R, AND AIELLO, J R; *PSYCHOSOCIAL DETERMINANTS OF STRESS AT THREE MILE ISLAND (BNS-8112434)*; 24 MONTHS $55,000

UNIVERSITY OF MARYLAND BALTIMORE PROF SCHOOLS

WEINREICH, DANIEL; *ROLE OF HISTAMINE AS A NEUROTRANSMITTER IN THE CENTRAL NERVOUS SYSTEM (BNS-7713034 A03)*; 12 MONTHS $70,200

BURT, DAVID R; *TRH IN RETINA (BNS-8025469*)*; 12 MONTHS $52,000

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

HANSON, FRANK E; *PHYSIOLOGICAL AND CHEMICAL BASIS OF HOST-PLANT RECOGNITION (BNS-7914043 A01)*; 12 MONTHS $25,446

UNIVERSITY OF MARYLAND, COLLEGE PARK

STEINMAN, ROBERT M; *HUMAN OCULOMOTOR CAPACITY (BNS-7716474 A03)*; 6 MONTHS $17,893

PENNER, MERRILYN J; *TEMPORAL PROCESSING OF AUDITORY STIMULI (BNS-7808116 A03)*; 12 MONTHS $44,611

BUCHLER, EDWARD R, AND CORLISS, JOHN O; *THE ORIENTATION BEHAVIOR OF RATS AND SHREWS (BNS-8004511 A01)*; $11,283

STEINMAN, ROBERT M; *HUMAN OCULOMOTOR CAPACITY (BNS-8013508)*; 12 MONTHS $86,772

ROGERS, TERRY B; *PHYSIOLOGICAL ROLE OF OUABAIN-LIKE MOLECULES IN MAMMALIAN BRAIN (BNS-8108182)*; 24 MONTHS $90,008

BORGIA, GERALD; *THE FUNCTIONS OF DISPLAY (BNS-8113477)*; 9 MONTHS $15,000

MASSACHUSETTS

BETH ISRAEL HOSPITAL-BOSTON

MESULAM, MAREK M; *NEUROHISTOCHEMISTRY FOR CEREBRAL CONNECTIONS (BNS-7823610 A02)*; 12 MONTHS $49,996

BOSTON UNIVERSITY

KIDD, ROBERT F; *CAUSAL EXPLANATIONS IN SOCIAL INTERACTION (BNS-8019404)*; 12 MONTHS $40,000

WILMSEN, EDWIN N, AND DENBOW, J R; *RENOVATION OF STORAGE FACILITIES TO HOUSE ARCHAEOLOGICAL COLLECTIONS MADE BY U.S. BASED AND FINANCED EXPEDITIONS IN BOTSWANA (BNS-8020332)*; 12 MONTHS $27,443

GIOVANNINI, MAUREEN J, AND FAIMAN-SILVA, SANDRA L; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8022456)*; 24 MONTHS $4,840

BAZERMAN, MAX H; *RESEARCH INITIATION - IMPROVING NEGOTIATION AND ARBITRATION EFFECTIVENESS: A DECISION MAKING PERSPECTIVE (BNS-8107331)*; 24 MONTHS $39,965

BOSTON UNIVERSITY-SCHOOL OF MEDICINE

ROSENE, DOUGLAS L; *ANATOMY OF THE LIMBIC SYSTEM IN PRIMATES (BNS-7924099 A01)*; 12 MONTHS $62,000

WHITE, EDWARD L; *MULTIUSER RESEARCH EQUIPMENT: ELECTRON MICROSCOPIC STUDIES OF THE MAMMALIAN CENTRAL NERVOUS SYSTEM (BNS-8105751)*; 12 MONTHS $55,000

BRANDEIS UNIVERSITY

APPELL, GEORGE N; *PROCESSES AND CONSEQUENCES OF SOCIAL CHANGE (BNS-7915343 A02)*; 12 MONTHS $39,035

LISMAN, JOHN; *MECHANISM OF MODULATION OF K CHANNELS BY LIGHT (BNS-8105746)*; 12 MONTHS $49,698

ZEITLIN, ROBERT N, AND NAGLE, CHRISTOPH L; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8113749)*; 15 MONTHS $4,602

HARVARD UNIVERSITY-HARVARD MEDICAL SCHOOL

DAHL, DORIS; *BRAIN FILAMENT PROTEINS IN VERTEBRATES (BNS-7912963 A02)*; 12 MONTHS $49,521

BRIDGES, ROBERT S; *ENDOCRINE AND NEURAL REGULATION OF MATERNAL BEHAVIOR (BNS-8014670 A01*)*; 12 MONTHS $23,495

FRANK, ERIC; *PLASTICITY OF SENSORY-MOTOR SYNAPSES (BNS-8021605)*; 12 MONTHS $46,013

WIESEL, TORSTEN N; *ACQUISITION OF EQUIPMENT FOR THE STUDY OF SEPARATION OF IDENTIFIED NEURONAL SUBCLASSES (BNS-8100340)*; 12 MONTHS $105,694

HARVARD UNIVERSITY

MCCLELLAND, DAVID C; *THE BIOSOCIAL FUNCTIONING OF THE NEED FOR POWER AND THE NEED FOR AFFILIATION (BNS-7630945 A05)*; 12 MONTHS $70,000

KOSSLYN, STEPHEN M; *VISUAL IMAGES AS MEMORY STRUCTURES (BNS-7912418 A01)*; 12 MONTHS $46,591

WINNER, ELLEN, AND GARDNER, HOWARD; *THE DEVELOPMENT OF METAPHORIC OPERATIONS (BNS-7924430 A01)*; 12 MONTHS $64,000

PERKINS, DAVID N; *A 'GOOD FORM' THEORY OF SHAPE AND SLANT PERCEPTION (BNS-7924746 A01)*; $15,452

DEVORE, IRVEN; *DEMOGRAPHY AND ECOLOGY OF TWO FOREST POPULATIONS (BNS-7926640 A01)*; 12 MONTHS $49,600

HOLLDOBLER, BERT K; *BEHAVIORAL MECHANISMS OF FORAGING AND TERRITORIAL CONTROL (BNS-8002613 A01)*; 12 MONTHS $47,546

GREEN, DAVID M; *QUANTITATIVE MODELS IN PSYCHOPHYSICS (BNS-8021142)*; 12 MONTHS $63,450

PINKER, STEVEN; *THE MENTAL REPRESENTATION OF 3-D SPACE (BNS-8024337*)*; 24 MONTHS $12,188

ROSENTHAL, ROBERT; *MEDIATION OF INTERPERSONAL EXPECTATION EFFECTS (BNS-8025522)*; 24 MONTHS $110,000

ESTES, WILLIAM K; *MATHEMATICAL MODELS IN COGNITIVE PSYCHOLOGY (BNS-8026656)*; 36 MONTHS $119,477

CALABRESE, RONALD L; *ULTRASTRUCTURE OF SYNAPSES BETWEEN IDENTIFIED NEURONS IN THE LEECH (BNS-8108837)*; 24 MONTHS $65,000

LAMBERG-KARLOVS, C C; *NATIVE YUGOSLAVIAN ETHNOGRAPHY (BNS-8110982)*; 12 MONTHS $4,000

DWECK, CAROL S, AND NICHOLLS, JOHN G; *THE DEVELOPMENT OF ACHIEVEMENT MOTIVATION: A COGNITIVE THEORY (BNS-8120628)*; 12 MONTHS $24,986

PILBEAM, DAVID R, AND BARRY, JOHN; *LATER MIOCENE HOMINOIDS AND THE ORIGINS OF HOMINIDAE (BNS-8140818*)*; 12 MONTHS $106,703

HARVARD UNIVERSITY-PEABODY MUSEUM

LAMBERG-KARLOVS, C C; *MAYAN MAMMALIAN OSTEOLOGY (BNS-8019400)*; 18 MONTHS $9,170

LAMBERG-KARLOVS, CLIFFORD; *PRESERVATION OF THE NORTH AMERICAN INDIAN BASKETRY COLLECTION (BNS-8106360)*; 12 MONTHS $63,200

MARINE BIOLOGICAL LABORATORY

IRELAND, LEONARD C, AND BARLOW, ROBERT B; *VISION AND BEHAVIOR (BNS-8025519)*; 24 MONTHS $59,998

BEAUGE, L A; *TRYPSIN DIGESTION AS A TOOL TO STUDY THE SODIUM PUMP-LIGANDS INTERACTIONS IN SQUID AXONS (BNS-8025579)*; 24 MONTHS $45,000

GROSS, PAUL R; *SUPPORT OF A CHARTER VESSEL FOR THE COLLECTION OF LIVE MARINE SPECIMENS FOR NEUROBIOLOGICAL RESEARCH (BNS-8104452)*; 36 MONTHS $50,000

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

BRAIDA, LOUIS D, AND DURLACH, NATHANIEL I; *INTENSITY PERCEPTION AND LOUDNESS (BNS-7716861 A03)*; 12 MONTHS $57,500

DURLACH, NATHANIEL I, AND BRAIDA, LOUIS D; *TACTILE COMMUNICATION OF SPEECH: COMPARATIVE STUDY OF ARTICULATORY AND SPECTRAL DISPLAY SCHEMES (BNS-7721751 A02)*; 12 MONTHS $109,900

GRAYBIEL, ANN M; *AN EXPERIMENTAL ANATOMICAL STUDY OF THE OCULOMOTOR SYSTEM (BNS-7810549 A03)*; $15,000

HALE, KENNETH L; *A LEXICOGRAPHIC STUDY OF SOME AUSTRALIAN LANGUAGES (BNS-7913950 A01)*; 24 MONTHS $49,999

NAUTA, WALLE J; *A NEUROANATOMICAL ANALYSIS OF THE MESENCEPHALO-LIMBIC CONNECTION (BNS-8007905 A01)*; 12 MONTHS $50,202

BRESNAN, JOAN W; *GRAMMATICAL REPRESENTATION AND GRAMMATICAL PROCESSING (BNS-8014730 A01)*; 12 MONTHS $106,375

SCHILLER, PETER H; *PARALLEL CHANNELS OF INFORMATION PROCESSING IN THE VISUAL SYSTEM (BNS-8019714)*; 12 MONTHS $42,000

GRAYBIEL, ANN M; *COMPARTMENTAL NATURE OF THE CONNECTIONS AND HISTOCHEMISTRY OF THE SUPERIOR COLLICULUS AND CEREBELLAR CORTEX (BNS-8112125)*; 12 MONTHS $101,769

DURLACH, NATHANIEL I, AND BRAIDA, LOUIS D; *TACTILE COMMUNICATION OF SPEECH: RESEARCH ON ARTICULATORYBASED SYSTEMS (BNS-8112138*)*; 12 MONTHS $101,365

MASSACHUSETTS MENTAL HEALTH RESEARCH CORP

MCCARLEY, ROBERT W; *THE SYNAPTIC BASIS OF SLEEP CYCLE CONTROL (BNS-8115786)*; 12 MONTHS $63,935

PEABODY MUSEUM OF SALEM

FETCHKO, PETER J; *INVENTORY, CARE AND PRESERVATION OF THE PACIFIC COLLECTION (BNS-8005461 A01)*; 12 MONTHS $16,966

RETINA FOUNDATION

HARTLINE, PETER H, AND NEWMAN, ERIC A; *MULTIMODAL INTEGRATION IN THE OPTIC TECTUM (BNS-8015839 A01)*; 12 MONTHS $68,000

ROBERT S PEABODY FOUNDATION OF ARCHAEOLOGY

MACNEISH, RICHARD S, AND WILKERSON, S JEFFREY K; *THE DAWN OF MAYA CIVILIZATION IN BELIZE (BNS-8025477)*; 12 MONTHS $79,217

SIDNEY FARBER CANCER INSTITUTE INC

WAGNER, JOHN A; *BIOCHEMISTRY OF MEMBRANE FUSION IN A PHEOCHROMACYTOMA CELL LINE (BNS-8005752 A01)*; 12 MONTHS $55,000

TUFTS UNIVERSITY-SCHOOL OF MEDICINE

MAUTNER, HENRY G; *STUDIES OF CHOLINE ACETYLTRANSFERASE (BNS-7906188 A02)*; 12 MONTHS $40,000

MAUTNER, HENRY G; *BIOCHEMICAL ASPECTS OF NERVE FUNCTION-STUDIES OF AXONAL MEMBRANES (BNS-8104175)*; 24 MONTHS $95,000

TUFTS UNIVERSITY

FEINLEIB, MARY E; *PHOTOMOVEMENT IN NORMAL AND 'EYELESS' CHLAMYDOMONAS: STIGMA FUNCTION AND PERCEPTION OF LIGHT DIRECTION (BNS-8014133)*; 24 MONTHS $79,489

UNIVERSITY OF MASSACHUSETTS, AMHERST

DAEHLER, MARVIN W, ANDERSON, DANIEL R, AND MYERS, NANCY; *CHILD STUDY CENTER FACILITY (BNS-7822970 A02*)*; 12 MONTHS $15,670

RAYNER, KEITH, AND FRAZIER, LYN; *LANGUAGE PROCESSING DURING READING (BNS-7917600 A01)*; 12 MONTHS $38,885

ANDERSON, DANIEL R; *CHILDREN'S TELEVISION VIEWING BEHAVIOR (BNS-7924658 A01)*; 12 MONTHS $55,519

MYERS, JEROME L; *MEMORY STRUCTURES AND PROCESSES (BNS-8001181 A01)*; 12 MONTHS $31,882

FITE, KATHERINE V; *NEUROBIOLOGICAL AND BEHAVIORAL STUDIES OF VISION (BNS-8012350 A01)*; 12 MONTHS $41,854

MOORE, JOHN W, AND AYRES, JOHN J; *VARIATIONS IN EFFECTIVENESS OF CONDITIONED STIMULI (BNS-8100322)*; 12 MONTHS $40,000

KAMIL, ALAN C; *THE DETECTION OF CRYPTIC PREY (BNS-8102335)*; 36 MONTHS $119,990

CLIFTON, RACHEL K, AND CLARKSON, MARSHA G; *COMPLEX AUDITORY PROCESSING IN HUMAN INFANTS (BNS-8103541)*; 24 MONTHS $69,998

DINCAUZE, DENA F, AND BRENNER, ELISE M; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLGY (BNS-8106559)*; 12 MONTHS $7,332

UNIVERSITY OF MASSACHUSETTS, BOSTON

MOORE, CELIA L; *HORMONES AND EXPERIENCE IN GENDER DIFFERENTIATION (BNS-8014669 A01)*; 12 MONTHS $46,736

WELLESLEY COLLEGE

MERRY, SALLY E, AND SILBEY, SUSAN S; *LEGITIMACY AND COERCION IN INFORMAL COMMUNITY JUSTICE (SES-8012034 A01*)*; 12 MONTHS $22,461

WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY

MACRIDES, FOTEOS; *OLFACTORY UNIT RESPONSES (BNS-7806348 A03)*; $10,000

O'CONNELL, ROBERT J; *CHEMICAL MODIFICATION AND MOLECULAR PROBE STUDIES OF INSECT PHEROMONE RECEPTOR NEURONS (BNS-8016395)*; 12 MONTHS $44,604

MORGANE, PETER J; *NEOCORTICAL FORMATIONS OF THE DOLPHIN BRAIN (BNS-8100064)*; 12 MONTHS $44,855

TREISTMAN, STEVEN N; *MODULATION OF NEURONAL PACEMAKER ACTIVITY (BNS-8109348)*; 12 MONTHS $50,000

MICHIGAN

CENTRAL MICHIGAN UNIVERSITY

CHAVEZ, KAREN L; *COMPLETION OF THE KIDDER ARCHAEOLOGICAL REPORTS (BNS-8113162)*; 18 MONTHS $52,000

HOPE COLLEGE

LUDWIG, THOMAS E; *RESEARCH INITIATION: HEMISPHERE DIFFERENCES IN THE AGING BRAIN: DO THEY PREDICT COGNITIVE DEFICITS? (BNS-8107242)*; 24 MONTHS $38,184

MICHIGAN STATE UNIVERSITY

KITAI, STEPHEN T; *MULTIUSER EQUIPMENT FOR ULTRASTRUCTURAL STUDIES OF THE NERVOUS SYSTEM (BNS-8019712)*; 12 MONTHS $117,049

DERMAN, WILLIAM, AND GROSZ-NGATE, MARIA L; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8023939)*; 18 MONTHS $7,111

JOHNSON, JOHN I; *REGIONAL SPECIALIZATIONS IN CEREBRAL CORTEX (BNS-8108073)*; 24 MONTHS $84,743

RILLING, MARK E; *STIMULUS CONTROL OF COGNITIVE PROCESSES (BNS-8110966)*; 36 MONTHS $85,953

OAKLAND UNIVERSITY

STANOVICH, KEITH E; *SENTENCE CONTEXT EFFECTS ON ONGOING WORD RECOGNITION DURING READING (BNS-8020594)*; 24 MONTHS $77,000

UNIVERSITY OF MICHIGAN-ANN ARBOR-MEDICAL SCHOOL

WATSON, STANLEY J; *ANATOMICAL AND PHYSIOLOGICAL STUDIES OF BRAIN A-MSH (BNS-8004512 A01)*; 12 MONTHS $73,000

UNIVERSITY OF MICHIGAN-ANN ARBOR

WOLPOFF, MILFORD H; *EVOLUTION OF TOOTH FUNCTION AND CRANIOFACIAL FORM (BNS-7682729 A03)*; 12 MONTHS $54,060

POLLACK, IRWIN; *PERCEPTUALIZATION OF STATISTICAL INFORMATION (BNS-7725701 A02)*; 12 MONTHS $55,841

FRIED, LISBETH S, AND HOLYOAK, KEITH J; *A DISTRIBUTION-LEARNING APPROACH TO CLASSIFICATION LEARNING (BNS-7904730 A01)*; 12 MONTHS $39,997

JONIDES, JOHN; *ORGANIZATION IN MEMORY (BNS-7913757 A02)*; 12 MONTHS $51,871

NISBETT, RICHARD E; *DOMAIN SPECIFICITY OF INFERENTIAL RULES (BNS-7914094 A01)*; 12 MONTHS $60,445

BURNSTEIN, EUGENE; *THE INFORMATIONAL BASIS OF SOCIAL INFLUENCE (BNS-7915416 A01)*; 12 MONTHS $56,889

WORTMAN, CAMILLE B; *PSYCHOLOGICAL REACTIONS TO UNCONTROLLABLE LIFE EVENTS (BNS-7921450 A02)*; 12 MONTHS $57,637

FRISANCHO, A R; *ADOLESCENT PREGNANCY AND BIRTH WEIGHT OF OFFSPRING (BNS-7924735 A01)*; 12 MONTHS $42,477

PARSONS, JEFFREY R; *PREHISPANIC AGRICULTURAL TECHNIQUES (BNS-8004697)*; 12 MONTHS $49,710

MISTRETTA, CHARLOTTE M, AND BRADLEY, ROBERT M; *DEVELOPMENT OF TASTE FUNCTION (BNS-8015737 A01)*; 12 MONTHS $60,000

GINGERICH, PHILIP D; *VARIABILITY AND HISTORY OF PRIMATES (BNS-8016743)*; 24 MONTHS $35,532

NAPOLI, DONNA JO; *ANAPHORIC PROCESSES IN ENGLISH AND ITALIAN (BNS-8017055)*; 24 MONTHS $24,988

SHATZ, MARILYN, AND HOFF-GINSBERG, ERIKA; *DOCTORAL DISSERTATION RESEARCH IN LINGUISTICS (BNS-8020335)*; 12 MONTHS $6,400

ECKERT, PENELOPE; *THE SPREAD OF LINGUISTIC CHANGE IN THE DETROIT SUBURBAN AREA (BNS-8023391)*; 24 MONTHS $75,000

JONIDES, JOHN; *AUTOMATIC AND EFFORTFUL COMPONENTS OF REHEARSAL (BNS-8024512)*; 12 MONTHS $30,999

HUTTERER, KARL L; *PREHISTORIC ADAPTATIONS TO TROPICAL ENVIRONMENTS (BNS-8024514)*; 24 MONTHS $123,093

VALENSTEIN, ELLIOT S; *PERSISTENT EFFECTS OF BRAIN SEIZURES (BNS-8025468)*; 24 MONTHS $55,349

PAYNE, ROBERT B; *CULTURAL EVOLUTION OF LOCAL BEHAVIOR TRADITIONS (BNS-8102404)*; 12 MONTHS $37,120

FORD, RICHARD I; *STORAGE AND CONSERVATION OF THE HINSDALE-GREAT LAKES VEGETAL CRAFT COLLECTION (BNS-8105371)*; 12 MONTHS $21,919

RAPPAPORT, ROY A; *ADAPTATION AND CHANGE IN TROPICAL HIGHLANDS (BNS-8105389)*; 18 MONTHS $109,681

WAYNE STATE UNIVERSITY

GOODMAN, MORRIS; *BIOMOLECULAR SYSTEMATICS OF PRIMATES AND OTHER EUTHERIA (DEB-7810717 A02*)*; 12 MONTHS $36,500

NJUS, DAVID L; *PROTON-LINKED AMINE TRANSPORT IN THE ADRENAL MEDULLA (BNS-7904752 A01)*; 12 MONTHS $40,000

BROWNER, CAROLE; *USES OF TRADITIONAL PLANT REMEDIES IN A RURAL COMMUNITY (BNS-8016431 A01)*; 24 MONTHS $51,520

HAZLETT, JAMES C; *ONTOGENY AND PLASTICITY OF ASCENDING THALAMIC AFFERENTS IN THE OPOSSUM (BNS-8023312)*; 12 MONTHS $52,000

MINNESOTA

UNIVERSITY OF MINNESOTA-MEDICAL SCHOOL

POPPELL, RICHARD E; *BASIC MECHANISMS UNDERLYING THE BEHAVIOR OF MAMMALIAN MUSCLE SPINDLES (BNS-7825168 A02)*; 12 MONTHS $25,000

UNIVERSITY OF MINNESOTA

SNYDER, MARK; *COGNITIVE, BEHAVIORAL, AND INTERPERSONAL CONSEQUENCES OF SOCIAL PERCEPTION (BNS-7711346 A04)*; 12 MONTHS $8,575

ROBERTS, WARREN W; *NEUROANATOMICAL MECHANISMS OF MOTIVATED BEHAVIORS (BNS-8014573)*; 24 MONTHS $69,992

COULTER, H DAVID; *NEUROPEPTIDE IMMUNOCYTOCHEMISTRY OF FROZEN-DRIED NERVOUS TISSUE (BNS-8021004)*; 12 MONTHS $33,000

MCDONALD, WILLIAM A, AND MOODY, JENNIFER A; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8026645)*; 18 MONTHS $4,340

MISSISSIPPI

UNIVERSITY OF SOUTHERN MISSISSIPPI

MOORE, FRANK R; *INTEGRATION OF DIRECTIONAL INFORMATION DURING MIGRATION (BNS-8023255)*; 24 MONTHS $49,999

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA-SCHOOL OF MEDICINE

BYLUND, DAVID B; *IN VITRO CHARACTERIZATION OF CENTRAL CATECHOLAMINERGIC RECEPTORS (BNS-7824715 A02)*; 12 MONTHS $41,983

UNIVERSITY OF MISSOURI, COLUMBIA

JEN, PHILIP S; *PROCESSING OF ACOUSTIC SIGNALS BY CEREBELLAR NEURONS IN FM AND CF-FM BATS (BNS-8007348 A01)*; 12 MONTHS $60,006

GERHARDT, H CARL; *BASIC MECHANISMS OF ACOUSTIC COMMUNICATION (BNS-8103592)*; 12 MONTHS $41,905

BENFER, ROBERT A; *HUMAN-ENVIRONMENT RELATIONS IN AN ARID LAND (BNS-8105394)*; 24 MONTHS $109,761

WASHINGTON UNIVERSITY-SCHOOL OF MEDICINE

AGRAWAL, HARISH C; *PROTEINS OF THE CENTRAL NERVOUS SYSTEM MYELIN (BNS-7824739 A02)*; 12 MONTHS $44,000

SANES, JOSHUA R; *THE SYNAPTIC CLEFT OF THE NEUROMUSCULAR JUNCTION (BNS-7923798 A01)*; 12 MONTHS $65,142

CARLSON, MARY; *SENSORIMOTOR CORTEX IN PROSIMIAN PRIMATES (BNS-8115044)*; 12 MONTHS $42,194

WASHINGTON UNIVERSITY

DURBIN, MARSHALL E, AND HALL, KATHERINE L; *DOCTORAL DISSERTATION RESEARCH IN LINGUISTICS (BNS-8023795)*; 12 MONTHS $6,543

NEBRASKA

FATHER FLANAGAN'S BOYS HOME

WEBER, DANIEL L, AND JESTEADT, WALT; *PSYCHOPHYSICAL STUDIES OF SUPPRESSION AND FORWARD MASKING (BNS-8013055 A01)*; 12 MONTHS $40,233

UNIVERSITY OF NEBRASKA MEDICAL CENTER AT OMAHA

CLARK, FRANCIS J; *RECEPTORS AND CENTRAL PATHWAYS SIGNALLING STATIC LIMBPOSITION SENSE (BNS-7618764 A04)*; 8 MONTHS $28,500

MURRIN, LEONARD C; *DEVELOPMENT OF THE MAMMALIAN NERVOUS SYSTEM (BNS-7921105 A01)*; 12 MONTHS $47,128

NEVADA

UNIVERSITY OF NEVADA, RENO

D'AZEVEDO, WARREN L; *ETHNIC IDENTITY AND NATIONAL INTEGRATION (BNS-8014124)*; 12 MONTHS $21,885

NEW HAMPSHIRE

DARTMOUTH COLLEGE

LANZETTA, JOHN T; *THE ROLE OF FACIAL EXPRESSIONS OF EMOTION IN THE ACTIVATION AND CONDITIONING OF EMOTIONAL BEHAVIOR (BNS-7912422 A01)*; 12 MONTHS $58,559

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

NEVIN, JOHN A; *REINFORCEMENT OF ATTENDING AND REMEMBERING (BNS-7924082 A01)*; 12 MONTHS $29,313

NEW JERSEY

COLLEGE OF MEDICINE & DENTISTRY OF NEW JERSEY-RUTGERS MEDICAL SCHOOL

GELLER, HERBERT M; *HYPOTHALAMIC TEMPERATURE-SENSITIVE NEURONS IN TISSUE CULTURE (BNS-7709241 A02)*; 6 MONTHS $22,978

BROWNING, EDWARD T; *HORMONE/SECOND MESSENGER REGULATION OF GLIAL CELL FUNCTION (BNS-8110564)*; 12 MONTHS $48,000

PRINCETON UNIVERSITY

GOULD, JAMES L; *ETHOLOGY OF APIS MELLIFERA (BNS-7824754 A02)*; 12 MONTHS $58,444

GLUCKSBERG, SAM; *AMBIGUITY AND METAPHOR IN SPEECH AND LANGUAGE (BNS-7827043 A02*)*; 12 MONTHS $40,750

GROSS, CHARLES G; *FUNCTIONS OF EXTRASTRIATE VISUAL CORTEX IN MACAQUE (BNS-7905589 A02)*; 12 MONTHS $70,167

GELPERIN, ALAN; *NEUROETHOLOGY OF LEARNING (BNS-8005832 A01)*; 12 MONTHS $64,001

CANTOR, NANCY; *COGNITIVE PROCESSES IN SOCIAL INTERACTION (BNS-8023353)*; 24 MONTHS $69,718

JONES, EDWARD E; *ATTRIBUTIONAL APPROACHES TO PERSON PERCEPTION, SELF CONCEPTION, AND SELF PRESENTATION (BNS-8023307)*; 36 MONTHS $187,955

PATON, MARTHA C; *RETINAL CELL LOSS AND THE FORMATION OF A TOPOGRAPHIC VISUAL MAP (BNS-8110225)*; 24 MONTHS $69,603

GEERTZ, HILDRED; *THE SOCIAL CONTEXT OF GENRE DEVELOPMENT (BNS-8112418)*; 15 MONTHS $44,188

RUTGERS UNIVERSITY-BUSCH CAMPUS

GANDELMAN, RONALD J; *AGGRESSIVE BEHAVIOR DURING LACTATION (BNS-7707347 A01)*; 24 MONTHS $64,938

SHAW, MARILYN L; *SELECTIVE INFORMATION PROCESSING MECHANISMS (BNS-7924885 A01)*; 12 MONTHS $41,244

FLAHERTY, CHARLES F; *ANALYSIS OF GLYCEMIC CONDITIONING (BNS-8020079)*; 20 MONTHS $40,000

RUTGERS UNIVERSITY-COOK COLLEGE

MORREN, GEORGE E, AND AARON, FRANCES J; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8020835)*; 20 MONTHS $5,243

RUTGERS UNIVERSITY-DOUGLASS COLLEGE

RAMSAY, DOUGLAS S; *LEVELS OF HEMISPHERIC SPECIALIZATION IN INFANCY (BNS-7926702*)*; 12 MONTHS $27,482

RUTGERS UNIVERSITY-LIVINGSTON COLLEGE

COHEN, YEHUDI A, AND FRIEDMAN, JACK; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8108879)*; 12 MONTHS $3,487

RUTGERS UNIVERSITY

GAL, SUSAN; *SOCIAL FUNCTION IN LANGUAGE CHANGE: A BILINGUAL CASE (BNS-8005889)*; 24 MONTHS $62,836

LINGLE, JOHN H, AND ALTOM, MARK W; *EPISODIC AND CATEGORICAL MEMORY REPRESENTATIONS IN IMPRESSION JUDGMENTS (BNS-8023564)*; 12 MONTHS $16,364

SAFA, HELEN I, AND SCHRODER, BARBARA; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8023598)*; 24 MONTHS $5,070

NEW MEXICO

UNIVERSITY OF NEW MEXICO-SCHOOL OF MEDICINE

PARTRIDGE, LLOYD D; *INTEGRATING AND ENCODING MECHANISMS OF NEURON SOMATA (BNS-8002011)*; 36 MONTHS $105,486

UNIVERSITY OF NEW MEXICO

HARRISON, PETER D; *PREHISTORIC AGRICULTURE IN BELIZE (BNS-8024516)*; 12 MONTHS $100,000

STRAUS, L G; *ARCHAEOLOGICAL RESEARCH: A STUDY OF ECOLOGICAL ADAPTATION (BNS-8103589)*; 12 MONTHS $38,022

BLEDSOE, CAROLINE H; *FOSTERAGE, FERTILITY AND CHILD MORTALITY (BNS-8111373)*; 24 MONTHS $58,000

LAMPHERE, LOUISE, AND EVANS, PETER B; *WORK AND FAMILY STRATEGIES IN THE CONTEXT OF INDUSTRIALIZATION (BNS-8112736)*; 18 MONTHS $63,988

NEW YORK

ADELPHI UNIVERSITY

DIAKOW, CAROL; *IPA MOBILITY ASSIGNMENT (CAROL DIAKOW) (BNS-8119388)*; 12 MONTHS $42,481

AMERICAN MUSEUM OF NATURAL HISTORY

SCHILDKROUT, ENID; *ECONOMIC ROLES OF CHILDREN IN WEST AFRICA (BNS-8014089 A01)*; 12 MONTHS $39,869

BUFFALO ORGAN FOR SOC TECHNL INNOVATION INC

BRILL, MICHAEL; *PRIVACY AND COMMUNICATION IN THE OFFICE AND THEIR IMPACTS ON JOB SATISFACTION AND PRODUCTIVITY (BNS-7910359 A01)*; $8,667

CITY COLLEGE

KINZEY, WARREN G, AND SKOPEC, ARTHUR L; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8009330)*; 18 MONTHS $7,870

CITY UNIVERSITY OF NEW YORK SYSTEM OFFICE

NELSON, KATHERINE; *THE ACQUISITION AND USE OF SCRIPTS IN COGNITIVE DEVELOPMENT (BNS-7914006 A01)*; 12 MONTHS $45,784

COLD SPRING HARBOR LAB OF QUANTITATIVE BIOLOGY

ZIPSER, BIRGIT; *BEHAVIORALLY DEDICATED NEURAL NETWORKS (BNS-7824672 A02)*; 12 MONTHS $32,740

ZIPSER, BIRGIT; *BEHAVIORALLY DEDICATED NEURAL NETWORKS (BNS-7824672 A03)*; $19,792

COLGATE UNIVERSITY

URTON, GARY; *ASTRONOMY AND CALENDRICS IN AGRICULTURAL ADAPTATION (BNS-8106254)*; 12 MONTHS $27,951

COLLEGE AT GENESEO

BEASON, ROBERT C; *MECHANISMS AND ONTOGENY OF MIGRATORY ORIENTATION IN A LONG-DISTANCE MIGRANT (BNS-8102794)*; 12 MONTHS $6,000

COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

MULLER-SCHWARZE, DIETLAND, AND SILVERSTEIN, ROBERT M; *STIMULI THAT RELEASE THE FLEHMEN RESPONSE (BNS-7821331 A02*)*; 12 MONTHS $25,000

COLUMBIA UNIVERSITY-COLLEGE OF PHYSICIANS AND SURGEONS

ROTHMAN, TAUBE P, AND GERSHON, MICHAEL D; *NEURONAL DIVERSITY IN THE PNS: DEVELOPMENT OF THE ENTERIC NERVOUS SYSTEM IN NORMAL AND AGANGLIONIC MICE (BNS-7911640 A02)*; 12 MONTHS $46,656

PFENNINGER, KARL H; *ELECTRON MICROSCOPE FOR STUDIES IN DEVELOPMENTAL AND CELLULAR NEUROBIOLOGY (BNS-8020830)*; 12 MONTHS $47,277

KELLY, JAMES P; *ONTOGENY OF INTERHEMISPHERIC CONNECTIONS IN THE CAT'S AUDITORY SYSTEM (BNS-8110240)*; 24 MONTHS $84,000

COLUMBIA UNIVERSITY

HOLLOWAY, RALPH L; *THE EVOLUTION OF THE HUMAN BRAIN: A MORPHOMETRIC ANALYSIS (BNS-7911235 A03)*; 12 MONTHS $42,518

PFENNINGER, KARL H; *INTRACELLULAR EVENTS DURING NEURONAL MEMBRANE GROWTH (BNS-7914071 A02)*; 12 MONTHS $55,176

DOSHER, BARBARA A; *RETRIEVAL OF INFORMATION FROM HUMAN MEMORY (BNS-7920905 A01)*; 12 MONTHS $38,149

SCHWARTZ, JAMES H; *MECHANISM OF AXONAL TRANSPORT (BNS-7923111 A01)*; 12 MONTHS $63,990

MURPHY, ROBERT F, AND LEVY, CARLOS D; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8006282)*; 24 MONTHS $5,072

HILDEBRAND, JOHN G; *CELLULAR AND MOLECULAR ANALYSIS OF NEURAL DEVELOPMENT (BNS-8013511)*; 12 MONTHS $73,974

ALLAND, ALEXANDER; *CROSS-CULTURAL ANALYSIS IN CHILDREN'S ART (BNS-8018071)*; 12 MONTHS $15,160

ALLAND, ALEXANDER, AND GAUGHAN, JOSEPH P; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8022485)*; 18 MONTHS $7,470

KRAUT, ROBERT E; *NONVERBAL BEHAVIOR IN SOCIAL INTERACTION (BNS-8141319)*; 12 MONTHS $26,000

CORNELL UNIVERSITY

JOHNSTON, ROBERT E; *SENSORY INFLUENCES ON REPRODUCTIVE BEHAVIOR IN ANIMALS (BNS-7822623 A02*)*; 12 MONTHS $41,543

BEM, SANDRA L; *COGNITIVE PROCESSES MEDIATING TRADITIONAL AND NON-TRADITIONAL GENDER ROLES (BNS-7822637 A02)*; 12 MONTHS $37,674

LUST, BARBARA; *CONSTRAINT ON ANAPHORA IN FIRST LANGUAGE ACQUISITION: A STUDY OF 6 LANGUAGES (BNS-7825115 A02)*; 12 MONTHS $48,969

BLACK, IRA B; *NERVE GROWTH IN CULTURE (BNS-7904296 A02)*; 12 MONTHS $60,000

KUNIHOLM, PETER I; *TREE RING CHRONOLOGIES FOR THE AEGEAN AND ADJACENT AREAS: A TOOL FOR ARCHAEOLOGICAL DATING AND FOR THE STUDY OF CLIMATE CHANGE (BNS-7906912 A02)*; 12 MONTHS $18,526

CAMHI, JEFFREY M; *PLASTICITY IN INVERTEBRATE NERVOUS SYSTEMS (BNS-7909663 A02)*; 12 MONTHS $58,963

FINLAY, BARBARA L; *CONTROL OF CONVERGENCE IN THE MAMMALIAN CENTRAL NERVOUS SYSTEM (BNS-7919491 A01)*; 12 MONTHS $31,000

HALPERN, BRUCE P; *A TEMPORAL ANALYSIS OF HUMAN TASTE JUDGEMENTS (BNS-8014148 A01)*; 12 MONTHS $54,812

DYSON-HUDSON, V RADA; *ENVIRONMENTAL MAPS AND MODELS IN A PASTORAL SOCIETY (BNS-8017800 A01)*; 6 MONTHS $7,089

KIRSCH, A THOMAS, AND BELCOVE, JANET S; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8018825)*; 12 MONTHS $4,755

PICKEL, VIRGINIA M; *STRUCTURE OF NEOSTRIATAL NEUROTRANSMITTER INTERACTION (BNS-8023914)*; 12 MONTHS $79,000

KEIL, FRANK C; *SEMANTIC AND CONCEPTUAL DEVELOPMENT (BNS-8102655)*; 24 MONTHS $89,632

BOON, JAMES A, AND ROSEMAN, MARINA; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8102784)*; 17 MONTHS $3,084

KRUMHANSL, CAROL L; *MUSIC PERCEPTION: MENTAL STRUCTURES AND PROCESSES (BNS-8103570)*; 24 MONTHS $99,995

CORNELL UNIVERSITY-CORNELL UNIVERSITY MEDICAL CENTER

DREYFUS, CHERYL F; *SPECIFICITY IN THE INNERVATION OF THE PARAVENTRICULAR NUCLEUS BY THE LOCUS COERULEUS IN VITRO (BNS-8024081*)*; 12 MONTHS $44,796

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

HAAS, JERE D; *ADAPTATION TO ANEMIA AND HIGH ALTITUDE (BNS-7906270 A02)*; 12 MONTHS $24,299

EMLEN, STEPHEN T; *FIELD STUDY OF COOPERATIVE BEHAVIOR (BNS-7924436 A01*)*; 12 MONTHS $31,177

SHERMAN, PAUL W; *ADAPTIVE SIGNIFICANCE OF MAMMALIAN BEHAVIOR (BNS-8105285*)*; 13 MONTHS $11,400

WALCOTT, CHARLES; *EXPERIMENTAL ANALYSIS OF ORIENTATION (BNS-8109898)*; 24 MONTHS $115,000

CORNELL UNIVERSITY-CORNELL UNIVERSITY - STATE

EMLEN, STEPHEN T; *AVIAN ORIENTATION (BNS-7813018 A03)*; 6 MONTHS $10,848

HAUSFATER, GLENN; *LONGITUDINAL STUDIES OF PRIMATE SOCIETIES (BNS-8007893 A01*)*; 12 MONTHS $22,940

KIRMEYER, SANDRA L; *EMPLOYEE REACTIONS TO JOB DEMANDS IN SERVICE SETTINGS (BNS-8008456 A01)*; 12 MONTHS $36,366

CUNY GRADUATE SCHOOL AND UNIVERSITY CENTER

MCGOVERN, THOMAS H, AND GREENFIELD, HASKEL J; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8105358)*; 12 MONTHS $6,790

DOWNSTATE MEDICAL CENTER AT BROOKLYN

WAKADE, ARUN R; *HYPERAMMONEMIA AND SYMPATHETIC NEUROSECRETION (BNS-7923019 A01)*; 12 MONTHS $40,000

SCALIA, FRANK; *REGENERATION OF OPTIC NERVE FIBERS IN THE VISUAL SYSTEM (BNS-7923788 A01)*; 12 MONTHS $56,000

FORDHAM UNIVERSITY

SCHNEIDER, PETER T; *CLASS FORMATION AND POPULATION GROWTH IN SICILY, 1850-1920 (BNS-8016583*)*; 24 MONTHS $56,316

HUNTER COLLEGE

HARDING, CHERYL F; *IPA MOBILITY ASSIGNMENT (BNS-8021676 A01)*; 11 MONTHS $947

PASTERNAK, BURTON; *FERTILITY AND HOUSEHOLD COMPOSITION (BNS-8102338)*; 18 MONTHS $68,000

ITHACA COLLEGE

SHARP, KAY; *RESEARCH INITIATION - SOCIAL PROBLEM-SOLVING BEHAVIOR AND REASONING IN CHILDREN (BNS-8107334)*; 14 MONTHS $32,945

LEHMAN COLLEGE

DELSON, ERIC; *AFRICAN PLIO-PLEISTOCENE BIOCHRONOLOGY (BNS-8113628)*; 13 MONTHS $64,462

MOUNT SINAI SCH OF MED CITY UNIV OF NEW YORK

AZMITIA, EFRAIN C; *INDUCED 5-HT AXONAL SPROUTING IN ADULT HIPPOCAMPUS (BNS-7906474 A02)*; 12 MONTHS $57,000

EISENMAN, JOSEPH S, AND AZMITIA, EFRAIN C; *NEURAL CONTROL OF THERMOREGULATORY SALIVATION IN RATS (BNS-7907245 A01)*; 12 MONTHS $47,000

LAITMAN, JEFFREY T; *THE EVOLUTION OF THE BASICRANIUM AND UPPER RESPIRATORY SYSTEM OF AFRICAN FOSSIL HOMINIDS (BNS-8025476)*; 24 MONTHS $18,827

MUSICAL OBSERVATIONS INC

ZUKOFSKY, PAUL; *LIMITS, CORRELATIONS, AND CONSTRAINTS ON MOTOR SKILLS (BNS-7824727 A02)*; 12 MONTHS $47,290

NEW YORK UNIVERSITY

MARGOLIS, RICHARD U; *COMPLEX CARBOHYDRATES OF NERVOUS TISSUE STORAGE ORGANELLES (BNS-7915410 A02)*; 12 MONTHS $46,339

BOAZ, NOEL T; *PALEOANTHROPOLOGICAL INVESTIGATION OF THE UPPER MIOCENE SITE OF SAHABI, LIBYA (BNS-7923458 A01)*; 12 MONTHS $44,207

BOAZ, NOEL T; *PALEOANTHROPOLOGICAL INVESTIGATION (BNS-7923458 A02)*; $1,336

KENNEDY, MICHAEL C; *EMBRYONIC DEVELOPMENT OF THE INNER EAR (BNS-8021614)*; 12 MONTHS $15,000

POPULATION COUNCIL

THOMPSON, ELIZABETH B; *MORPHOLOGY OF IDENTIFIED SYNAPSES (BNS-8026837)*; 12 MONTHS $90,699

RESEARCH FOUNDATION FOR MENTAL HYGIENE INC

SCHACHER, SAMUEL M; *DEVELOPMENT OF IDENTIFIED CNS NEURONS IN APLYSIA (BNS-7823602 A02)*; 12 MONTHS $65,000

GIBBON, JOHN; *TIME AND CONTINGENCY IN ASSOCIATION LEARNING (BNS-7823616 A02)*; 12 MONTHS $40,960

BAILEY, CRAIG H; *CELLULAR APPROACH TO NEUROBIOLOGY OF AGING (BNS-7824476 A02)*; 12 MONTHS $69,746

STONE, ARTHUR A, AND NEALE, JOHN M; *DEVELOPMENT OF A METHODOLOGY TO MEASURE THE IMPACT OF DAILY LIFE EVENTS (BNS-7923715 A01)*; 12 MONTHS $61,000

TAMIR, HADASSAH; *BIOGENIC AMINE TRANSFER AND STORAGE MECHANISMS (BNS-8009335 A01)*; 12 MONTHS $41,002

ROCKEFELLER UNIVERSITY

PATON, JOHN A, AND NOTTEBOHM, FERNANDO; *NEUROPHYSIOLOGY OF VOCAL CONTROL (BNS-7924602 A01)*; 12 MONTHS $51,678

MARLER, PETER R; *COMPARATIVE STUDIES OF SIGNAL STRUCTURE AND FUNCTION (BNS-8023433)*; 12 MONTHS $25,000

MARLER, PETER R; *COMPARATIVE STUDIES OF SIGNAL STRUCTURE AND FUNCTION (BNS-8023423 A01)*; $15,537

NOTTEBOHM, FERNANDO; *COMPUTER-AIDED ANALYSIS OF THE NEURAL BASIS FOR VOCALIZATION (BNS-8105737)*; 12 MONTHS $25,000

RUBIN, LEE L; *REGULATORY EVENTS IN NERVE-MUSCLE SYNAPSE FORMATION (BNS-8111361)*; 12 MONTHS $80,000

PFAFFMANN, CARL; *ELECTRO-CHEMICAL STIMULATION OF TASTE CHEMORECEPTORS (BNS-8111816)*; 12 MONTHS $60,000

NORGREN, RALPH E; *GUSTATORY AND VISCERAL AFFERENT NEURAL ORGANIZATION (BNS-8140907)*; 12 MONTHS $67,000

STATE UNIVERSITY AT ALBANY

MURPHEY, RODNEY K; *DEVELOPMENT AND DEPRIVATION OF IDENTIFIED NEURONS (BNS-7824939 A02)*; 12 MONTHS $47,832

ABLE, KENNETH P; *FIELD-EXPERIMENTAL STUDIES OF MIGRATORY ORIENTATION AND NAVIGATION (BNS-7923711 A01)*; 12 MONTHS $20,317

SUSMAN, RANDALL L; *POSITIONAL BEHAVIOR AND FEEDING ECOLOGY OF PAN PANISCUS (BNS-7924162 A01)*; 12 MONTHS $49,270

STATE UNIVERSITY AT BINGHAMTON

REDMAN, CHARLES L; *URBANISM AND STATE SOCIETY IN NORTH AFRICA (BNS-8002289 A01)*; 12 MONTHS $30,000

PASTORE, RICHARD E; *PSYCHOPHYSICS FOR SPEECH PERCEPTION (BNS-8003704 A01*)*; 12 MONTHS $29,785

REDMAN, CHARLES L, AND MYERS, J EMLEN; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8016653)*; 7 MONTHS $3,900

MICHAEL, SANDRA D; *HORMONAL FACTORS AFFECTING BEHAVIOR IN THE FEMALE (BNS-8021610)*; 24 MONTHS $109,999

DEFEE, DALLAS T; *RESEARCH INITIATION: AN INVESTIGATION OF SYSTEMATIC BIAS IN CHOICE BEHAVIOR (BNS-8107800)*; 24 MONTHS $39,996

STATE UNIVERSITY AT BUFFALO

PRUITT, DEAN G; *FACTORS AFFECTING INTEGRATIVE BARGAINING (BNS-8014902 A01)*; 12 MONTHS $75,000

STATE UNIVERSITY AT STONY BROOK

SCHMIDT, JAKOB; *SNAKE TOXINS AS NEURONAL PROBES (BNS-7802786 A02)*; 12 MONTHS $32,000

RACHLIN, HOWARD C; *REINFORCEMENT AND PUNISHMENT IN A CLOSED SYSTEM (BNS-7909095 A02*)*; 12 MONTHS $30,367

JOHNSON, MARCIA K; *REALITY-MONITORING AND MEMORY FOR THOUGHT (BNS-7813054 A02)*; 12 MONTHS $36,427

LEVINE, MARVIN; *SPATIAL PROBLEM SOLVING (BNS-7824716 A02)*; 12 MONTHS $38,069

BAARS, BERNARD J; *EXPERIMENTAL ANALYSIS OF SPEECH PRODUCTION (BNS-7906024 A02)*; 12 MONTHS $19,454

STERN, JACK T; *PRIMATE LOCOMOTION (BNS-7924070 A01)*; 12 MONTHS $65,749

WEIGAND, PHIL C, AND VEAKIS, EMIL; *NEUTRON ACTIVATION ANALYSIS OF ARCHAEOLOGICAL TURQUOISE (BNS-8014969 A01)*; 12 MONTHS $46,906

CARLSON, ALBERT D; *ORGANIZATION OF FIREFLY NERVOUS SYSTEM AND FLASH CONTROL (BNS-8020333)*; 24 MONTHS $55,048

HAY, DALE F; *SOCIAL LEARNING OF SOCIAL BEHAVIOR IN EARLY LIFE (BNS-8025474)*; 24 MONTHS $73,414

RACHLIN, HOWARD C; *REINFORCEMENT AND PUNISHMENT IN A CLOSED SYSTEM (BNS-8110456)*; 36 MONTHS $97,454

SYRACUSE UNIVERSITY

CAMPBELL, DONALD T; *THEORY OF SOCIAL EXPERIMENTATION, MEASUREMENT AND PROGRAM EVALUATION (BNS-7925577 A01*)*; 12 MONTHS $44,875

BUECHLER, HANS C, AND BUECHLER, JUDITH M; *SMALL-SCALE ENTERPRISES IN A DEVELOPING NATION (BNS-8024513)*; 12 MONTHS $66,996

SMITH, ROBERT L; *SATURATION, ADAPTATION, AND DYNAMIC RANGE OF SINGLE AUDITORY NEURONS (BNS-8104089)*; 12 MONTHS $59,635

BARLOW, ROBERT B; *EFFERENT CONTROL OF VISUAL SENSITIVITY (BNS-8104669)*; 12 MONTHS $52,550

WOLF, LARRY L; *DECISION-MAKING IN A VARIABLE ENVIRONMENT: ALTERNATE STRATEGIES (BNS-8105741)*; 2 MONTHS $17,060

TEACHERS COLLEGE

DEUTSCH, MORTON; *SOCIAL PSYCHOLOGICAL STUDIES OF DIFFERENT SYSTEMS OF DISTRIBUTIVE JUSTICE (BNS-7716017 A04)*; 12 MONTHS $64,915

COMITAS, LAMBROS E, AND AINGER, HILARY M; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8016403)*; 18 MONTHS $5,100

BLOOM, LOIS, AND BLAKE, IRA K; *DOCTORAL DISSERTATION RESEARCH IN LINGUISTICS (BNS-8022490)*; 12 MONTHS $1,706

UNIVERSITY OF ROCHESTER-SCHOOL OF MEDICINE AND DENTISTRY

DOTY, ROBERT W; *INTERHEMISPHERIC MNEMONIC TRANSFER (BNS-7906819 A02)*; 12 MONTHS $77,000

COLEMAN, PAUL D, AND CURCIO, CHRISTINE A; *DOCTORAL DISSERTATION RESEARCH IN SENSORY PHYSIOLOGY AND PERCEPTION (BNS-8017813)*; 12 MONTHS $5,483

O NEILL, WILLIAM E; *AUDITORY PROCESSING OF COMPLEX ACOUSTIC SIGNALS (BNS-8023109)*; 24 MONTHS $86,710

UNIVERSITY OF ROCHESTER

CARTER, ANTHONY T, AND EDES, DANIEL; *DOCTORAL DISSERTATION RESEARCH IN LINGUISTICS (BNS-8016410)*; 24 MONTHS $6,475

DECI, EDWARD L; *INTRINSIC MOTIVATION AND CAUSALITY ORIENTATIONS (BNS-8018698)*; 24 MONTHS $90,000

CARACO, THOMAS; *RISK-SENSITIVE DECISION-MAKING IN ANIMALS (BNS-8020717)*; 24 MONTHS $48,870

MAKOUS, WALTER; *RELATING PHYSIOLOGY TO PSYCHOPHYSICS: CURRENT PROBLEMS AND APPROACHES; ROCHESTER N.Y.; 6/19-20/81 (BNS-8109649)*; 12 MONTHS $7,615

UPSTATE MEDICAL CENTER AT SYRACUSE

CARBONETTO, SALVATORE; *SURFACE MODULATION BY LECTINS AND AXONAL GROWTH (BNS-8021860)*; 24 MONTHS $100,000

DURKOVIC, RUSSELL G; *NEURAL MECHANISMS OF A CLASSICALLY CONDITIONED REFLEX (BNS-8023943)*; 12 MONTHS $54,000

UTICA COLLEGE OF SYRACUSE UNIVERSITY

MCINTYRE, JUDITH W; *AMPLITUDE AS A FACTOR IN ACOUSTIC SIGNAL DESIGN (BNS-8106567)*; 12 MONTHS $9,963

YESHIVA UNIVERSITY-ALBERT EINSTEIN COLLEGE OF MEDICINE

SCHARRER, BERTA; *NEUROENDOCRINE STUDIES IN INSECTS (BNS-7908854 A02)*; 12 MONTHS $63,000

HALL, LINDA M; *ACETYLCHOLINE RECEPTORS IN DROSOPHILA MELANOGASTER (BNS-7929435 A01)*; 12 MONTHS $58,501

ZUKIN, R SUZANNE; *MODEL STUDIES OF SENSORY RECEPTOR INTERACTIONS (BNS-8019720)*; 12 MONTHS $62,284

YESHIVA UNIVERSITY

FISHMAN, JOSHUA A; *MINORITY LANGUAGES IN THE U. S. (BNS-7906055 A01)*; 12 MONTHS $60,000

NORTH CAROLINA

DUKE UNIVERSITY

LOCKHEAD, GREGORY R; *SEQUENTIAL EFFECTS IN JUDGMENT (BNS-7827004 A02)*; 12 MONTHS $35,988

STADDON, JOHN E R; *BEHAVIORAL COMPETITION: STATICS AND DYNAMICS (BNS-7915114 A01)*; 12 MONTHS $51,000

DIAMOND, IRVING T; *LAMINAR ORGANIZATION OF CORTEX AND LATERAL GENICULATE BODY (BNS-7915780 A02)*; 12 MONTHS $45,545

ERICKSON, ROBERT P; *NEURON TYPOLOGIES IN GUSTATION (BNS-8021604)*; 24 MONTHS $34,898

RUBIN, DAVID C; *CUING OF AUTOBIOGRAPHICAL MEMORY (BNS-8101116)*; 18 MONTHS $21,319

CANT, JOHN G; *DIVERGENCE OF CERCOPITHECOIDS AND HOMINOIDS (BNS-8111631)*; 36 MONTHS $85,702

PESSAR, PATRICIA R; *THE ROLE OF HOUSEHOLDS IN DOMINICAN MIGRATION TO THE UNITED STATES (BNS-8113518)*; 18 MONTHS $28,000

DUKE UNIVERSITY-SCHOOL OF MEDICINE

CASSEDAY, JOHN H; *CENTRAL AUDITORY PATHWAYS (BNS-8013774 A01)*; 12 MONTHS $50,281

SIMONS, ELWYN L, AND KAY, RICHARD F; *ANTHROPOLOGICAL AND PALEONTOLOGICAL WORK INTO FOSSIL ANTHROPOID SITES (BNS-8016206 A01)*; 12 MONTHS $85,151

HALL, WILLIAM C; *STRUCTURAL ORGANIZATION OF THE SUPERIOR COLLICULUS (BNS-8109794)*; 12 MONTHS $55,477

NORTH CAROLINA FDN FOR MENTAL HEALTH RES INC

OPPENHEIM, RONALD W; *NEURONAL CELL DEATH IN THE CHICK EMBRYO (BNS-7924088 A01)*; 12 MONTHS $47,413

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL-SCHOOL OF MEDICINE

MYERS, R D; *CHEMICAL FACTORS IN THE BRAIN INVOLVED IN INGESTIVE BEHAVIOR (BNS-7824491 A02)*; 12 MONTHS $65,000

OXFORD, G S; *SODIUM CHANNEL GATING MECHANISMS: A MOLECULAR STUDY (BNS-7921505 A01)*; 12 MONTHS $52,756

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

WEST, MEREDITH J; *DEVELOPMENTAL AND FUNCTIONAL ANALYSIS OF AVIAN VOCAL LEARNING (BNS-8023108)*; 12 MONTHS $42,174

RHEINGOLD, HARRIET L, AND SAMUELS, HELEN R; *DOCTORAL DISSERTATION RESEARCH IN SOCIAL AND DEVELOPMENTAL PSYCHOLOGY (BNS-8023313)*; 12 MONTHS $1,769

WEST, MEREDITH J, AND EASTZER, DAVID H; *DOCTORAL DISSERTATION RESEARCH IN PSYCHOBIOLOGY (BNS-8109185)*; 24 MONTHS $6,970

OHIO

CASE WESTERN RESERVE UNIVERSITY

BEALL, CYNTHIA M; *SENESCENCE AND GROWTH AT HIGH ALTITUDE (BNS-8014317)*; 12 MONTHS $61,348

RITZMANN, ROY E, AND WESTIN, JOANNE; *CONTROL OF MOTOR PATHWAYS IN INSECTS (BNS-8109782)*; 12 MONTHS $45,000

CASE WESTERN RESERVE UNIVERSITY-SCHOOL OF MEDICINE

ANDORN, ANNE C; *ACQUISITION OF LIQUID SCINTILLATION COUNTER AND ULTRACENTRIFUGE (PCM-8100300*)*; 12 MONTHS $10,000

CLEVELAND MUSEUM OF NATURAL HISTORY

JOHANSON, DONALD C; *COLLABORATIVE RESEARCH ON PALEOBIOLOGY OF PLIOCENE HOMINIDAE FROM HADAR, ETHIOPIA (BNS-7825129 A02)*; 12 MONTHS $28,010

KENT STATE UNIVERSITY

LOVEJOY, C OWEN; *COLLABORATIVE RESEARCH ON PALEOBIOLOGY OF PLIOCENE HOMINIDAE FROM HADAR (BNS-7918514 A03)*; 12 MONTHS $32,802

MEDICAL COLLEGE OF OHIO AT TOLEDO

SAUL, FRANK P, AND SAUL, JULIE M; *ANALYSIS OF HUMAN SKELETAL REMAINS FROM THE CUELLO SITE, BELIZE, C. A. (BNS-8101759)*; 12 MONTHS $28,990

OHIO STATE UNIVERSITY

MARTIN, GEORGE F; *THE DEVELOPMENT OF BRAINSTEM-SPINAL SYSTEMS RELATED TO AUTONOMIC CONTROL, PAIN MODULATION AND SOMATIC MOTOR ACTIVITY (BNS-8008675 A01)*; 12 MONTHS $63,020

OKLAHOMA

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

MOCK, DOUGLAS W; *EVOLUTIONARY ANALYSIS OF A SIMPLE SOCIAL UNIT (BNS-7906059 A02)*; 12 MONTHS $23,911

BELL, ROBERT E; *PRESERVATION OF WORKS PROGRESS ADMINISTRATION ARCHEOLOGICAL RECORDS (BNS-8105386)*; 12 MONTHS $20,000

OREGON

UNIVERSITY OF OREGON - EUGENE

HINTZMAN, DOUGLAS L; *REPETITION IN EPISODIC AND GENERIC MEMORY (BNS-7824987 A02)*; 12 MONTHS $42,582

COHEN, SHELDON; *MECHANISMS INVOLVED IN THE BEHAVIORAL AFTEREFFECTS OF STRESS (BNS-7923453 A01)*; 12 MONTHS $41,570

POSNER, MICHAEL I; *ORIENTING IN VISUAL AND SEMANTIC SPACE (BNS-7923527 A01*)*; 12 MONTHS $43,906

HOYLE, GRAHAM; *NEURAL MECHANISMS UNDERLYING BEHAVIOR (BNS-7923786 A01)*; 12 MONTHS $63,009

SIMMONS, JAMES A; *PROCESSING OF ECHOES IN BAT SONAR (BNS-8013170 A01)*; 12 MONTHS $54,739

WESTERFIELD, MONTE; *DEVELOPMENT AND MAINTENANCE OF MOTONEURONAL CONNECTIVITY (BNS-8103573)*; 12 MONTHS $45,000

LICKEY, MARVIN E; *NEURAL RESETTING OF A CIRCADIAN CLOCK (BNS-8108168)*; 24 MONTHS $79,000

AIKENS, C MELVIN, AND SMITH, MARION F; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8109297)*; 12 MONTHS $5,353

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

ANDERSON, JOHN R; *EFFECTS OF OLD KNOWLEDGE ON MEMORY FOR NEW INFORMATION (BNS-7817463 A03)*; 12 MONTHS $58,920

HAYES, JOHN R, AND SIMON, HERBERT A; *REPRESENTATION AND TRANSFER IN PROBLEM SOLVING (BNS-7825033 A02)*; 12 MONTHS $45,359

HAYES, JOHN R, AND SIMON, HERBERT A; *REPRESENTATION AND TRANSFER IN PROBLEM SOLVING (BNS-7825033 A03)*; $10,000

ANDERSON, JOHN R; *A MULTI-USER COMPUTER FACILITY FOR COGNITIVE SIMULATION (BNS-8013051 A01)*; $58,000

SCHEIER, MICHAEL F; *COOPERATIVE RESEARCH ON SELF-ATTENTION, EXPECTANCY, AND BEHAVIORAL REGULATION (BNS-8021859)*; 12 MONTHS $32,397

KIESLER, SARA B; *CONSUMER REPRESENTATION AND THE STANDARD SETTING PROCESS (BNS-8022889)*; 12 MONTHS $101,033

KLAHR, DAVID; *PROBLEM SOLVING PROCESSES IN PRE-SCHOOL CHILDREN (BNS-8112743)*; 24 MONTHS $138,090

FRANKLIN AND MARSHALL COLLEGE

MCDOWELL, NANCY; *PRIMARY SOURCE ETHNOGRAPHY (BNS-8107287)*; 12 MONTHS $10,881

GETTYSBURG COLLEGE

PITTMAN, THANE S, AND D'AGOSTINO, PAUL R; *THE RELATIONSHIP BETWEEN CONTROL DEPRIVATION AND INFORMATION PROCESSING (BNS-8111829)*; 24 MONTHS $79,974

INSTITUTE FOR THE STUDY OF HUMAN ISSUES

CHERNOFF, JOHN M; *THE USE OF VERNACULAR TEXTS IN ETHNOGRAPHY (BNS-8024289)*; 24 MONTHS $30,000

LEHIGH UNIVERSITY

ITZKOWITZ, MURRAY; *INTERRELATIONSHIPS AMONG HABITAT, REPRODUCTION, AND TERRITORIAL DEFENSE (BNS-8110444)*; 24 MONTHS $32,400

NYBY, JOHN G; *CHEMICAL COMMUNICATION (BNS-8111344)*; 12 MONTHS $33,105

MEDICAL COLLEGE OF PENNSYLVANIA

GOLDBERGER, MICHAEL E; *AXONAL SPROUTING AND FUNCTIONAL RECOVERY IN THE CNS (BNS-8024175)*; 12 MONTHS $80,000

MONELL CHEMICAL SENSES CENTER

SMITH, AMOS B, AND EPPLE, GISELA; *CHEMICAL COMMUNICATION IN A PRIMATE: A CHEMICAL AND BEHAVIORAL STUDY (BNS-7819875 A02*)*; 12 MONTHS $31,421

BEAUCHAMP, GARY K, AND WELLINGTON, JUDITH W; *CHEMICAL COMMUNICATION (BNS-7906234 A02*)*; 12 MONTHS $53,000

PENNSYLVANIA STATE UNIVERSITY

NELSON, KEITH E; *RECASTS AND RELATED COMPONENTS OF INPUT IN CHILDREN'S LANGUAGE ACQUISITION (BNS-8013767)*; 12 MONTHS $31,668

MICHELS, JOSEPH W, AND STEVENSON, CHRISTOPH M; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8019713)*; 12 MONTHS $7,595

LACHS, GERARD; *AN AUDITION MODEL WHICH RECONCILES PHYSIOLOGICAL PARAMETERS WITH PSYCHOPHYSICAL DATA (BNS-8021140)*; 24 MONTHS $84,224

BELSKY, JAY, AND SPANIER, GRAHAM B; *MARRIAGE, PARENTING & INFANT DEVELOPMENT: A LONGITUDINAL STUDY (SES-8108886*)*; 18 MONTHS $10,000

BAKER, PAUL T, AND PELLETIER, DAVID L; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8111466)*; 10 MONTHS $7,730

SWARTHMORE COLLEGE

SCHWARTZ, BARRY; *CREATION OF BEHAVIOR UNITS BY CONTINGENT REINFORCEMENT (BNS-7815461 A02)*; 12 MONTHS $37,782

KEMLER, DEBORAH G; *DEVELOPMENT OF PERCEPTUAL AND ANALYTIC SKILLS (BNS-7924035 A01)*; 12 MONTHS $39,918

TEMPLE UNIVERSITY

MARGULES, DAVID L; *NEUROCHEMISTRY OF OBESITY AND LEARNED TASTE AVERSIONS (BNS-7920616 A01)*; 12 MONTHS $78,000

RANERE, ANTHONY J; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8109130)*; 14 MONTHS $5,840

RANERE, ANTHONY J, AND ADAMS, JOHN; *ENVIRONMENT, SETTLEMENT AND SUBSISTENCE IN AN ARCHAEOLOGICAL CONTEXT (BNS-8112475)*; 12 MONTHS $82,947

UNIVERSITY OF PENNSYLVANIA-SCHOOL OF MEDICINE

PALMER, LARRY A; *SINGLE AND MULTIPLE UNIT ANALYSIS IN STRIATE CORTEX (BNS-7825147 A02)*; 12 MONTHS $69,888

UNIVERSITY OF PENNSYLVANIA

PUGH, EDWARD N; *QUANTITATIVE CHARACTERIZATION OF CHROMATIC ADAPTATION THROUGH THE TWO-COLOR INCREMENT THRESHOLD (BNS-7924163 A01)*; 12 MONTHS $45,000

GELMAN, ROCHEL; *COGNITIVE DEVELOPMENT (BNS-8004881 A01)*; 12 MONTHS $68,152

SANKOFF, GILLIAN, AND ABDEL-JAWAD, HAUSAN; *DOCTORAL DISSERTATION RESEARCH IN LINGUISTICS (BNS-8022455)*; 8 MONTHS $5,771

LABOV, WILLIAM; *THE INFLUENCE OF URBAN MINORITIES ON LINGUISTIC CHANGE (BNS-8023506)*; 12 MONTHS $122,704

DAVENPORT, WILLIAM H, AND WELSH, PETER H; *DOCTORAL DISSERTATION IN ANTHROPOLOGY (BNS-8023407)*; 24 MONTHS $7,935

PREMACK, DAVID; *COMPARATIVE INTELLIGENCE (BNS-8023574*)*; 12 MONTHS $126,180

PREMACK, DAVID; *COMPARATIVE INTELLIGENCE (BNS-8023574 A01*)*; $8,035

APPADURAI, ARJUN; *A CULTURAL MODEL OF CONSUMPTION DECISIONS (BNS-8105360)*; 18 MONTHS $27,135

GOODENOUGH, WARD H, AND IMAMURA, ATSUKO; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8114804)*; 15 MONTHS $5,000

RESCORLA, ROBERT A; *ASPECTS OF PAVLOVIAN CONDITIONING (BNS-8140802)*; 24 MONTHS $97,819

UNIVERSITY OF PITTSBURGH-SCHOOL OF MEDICINE

SIMONS, DANIEL J; *FUNCTIONAL PLASTICITY IN THE SOMATOSENSORY NEOCORTEX (BNS-8021854)*; 24 MONTHS $85,000

UNIVERSITY OF PITTSBURGH

MCKELVY, JEFFREY F; *REGULATION OF HYPOTHALAMIC RELEASING FACTOR METABOLISM (BNS-7921781 A01)*; 12 MONTHS $70,274

BERGER, THEODORE W; *LIMBIC NEURAL PLASTICITY AND LEARNED BEHAVIOR (BNS-8021395)*; 12 MONTHS $40,103

LEVINE, JOHN M, AND MORELAND, RICHARD L; *GROUP SOCIALIZATION: TEMPORAL CHANGES IN INDIVIDUAL-GROUP RELATIONS (BNS-8104961)*; 24 MONTHS $99,989

DRENNAN, ROBERT D; *SOURCE ANALYSIS OF OBSIDIAN (BNS-8112161)*; 12 MONTHS $24,974

MCPHERRON, ALAN; *PALEOMAGNETIC DATING AT BUGIULESTI, ROMANIA (BNS-8118086)*; 6 MONTHS $1,154

RHODE ISLAND

BROWN UNIVERSITY

ANDERSON, JAMES A; *COGNITIVE APPLICATIONS OF MATRIX MEMORY MODELS (BNS-7923000 A01*)*; 12 MONTHS $19,002

WAAGE, JONATHAN K; *BEHAVIORAL STRATEGIES IN GENETIC TRANSMISSION IN ODONATA (DEB-8004383 A01*)*; 12 MONTHS $13,638

EBNER, FORD F; *THE REORGANIZATION OF CORTEX FOLLOWING THALAMIC REMOVAL (BNS-8022488)*; 12 MONTHS $75,000

GOULD, RICHARD A; *HUMAN ADAPTATION IN THE AUSTRALIAN DESERT (BNS-8023300)*; 12 MONTHS $35,458

BLOUGH, DONALD S, AND BLOUGH, PATRICIA M; *PROCESSES OF STIMULUS CONTROL (BNS-8025515)*; 12 MONTHS $77,822

AVERY, DONALD H; *A STUDY OF NATURAL DRAFT IRON AGE SMELTING FURNACES (BNS-8113654)*; 24 MONTHS $59,724

GORDON RESEARCH CONFERENCES

CRUICKSHANK, ALEXANDER M; *GORDON RESEARCH CONFERENCE ON THE CHEMICAL SENSES: OLFACTION AND TASTE (BNS-8109344)*; 12 MONTHS $10,000

SOUTH CAROLINA

MEDICAL UNIVERSITY OF SOUTH CAROLINA

CROUCH, ROSALIE K; *SYNTHETIC PHOTOSENSITIVE PIGMENTS (BNS-8011543 A01)*; 12 MONTHS $51,555

LANDRETH, GARY E; *CONTROL OF MICROTUBULE ASSEMBLY BY NERVE GROWTH FACTOR (BNS-8110452)*; 36 MONTHS $100,228

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

BEITZ, ALVIN J; *MIDBRAIN PAG: ITS RELATIONSHIP TO NOCICEPTION AND ANALGESIA (BNS-7906486 A01)*; 24 MONTHS $80,005

DENISI, ANGELO S; *A COGNITIVE APPROACH TO PERFORMANCE APPRAISAL: RATER INFORMATION GATHERING AND PROCESSING STRATEGIES (BNS-8023252)*; 24 MONTHS $82,410

TENNESSEE

BILL WILKERSON HEARING & SPEECH CENTER

GRANTHAM, D WESLEY; *DYNAMIC BINAURAL PROCESSING (BNS-8040747)*; 12 MONTHS $41,464

UNIVERSITY OF TENNESSEE AT CHATTANOOGA

MILES, H; *THE DEVELOPMENT OF A COMMUNICATIVE AND SYMBOLIC CAPACITY (BNS-8022260*)*; 24 MONTHS $49,965

UNIVERSITY OF TENNESSEE AT KNOXVILLE

BURGHARDT, GORDON M; *EARLY EXPERIENCE AND SENSORY PROCESSES (BNS-7814196 A03)*; 12 MONTHS $38,377

VANDERBILT UNIVERSITY-SCHOOL OF MEDICINE

KUCZENSKI, RONALD T; *REGULATION OF NERVE-ENDING TYROSINE HYDROXYLASE ACTIVITY (BNS-8022441)*; 24 MONTHS $90,000

VANDERBILT UNIVERSITY

MASTERS, JOHN C, AND HARVEY, JOHN H; *CONFERENCE ON BOUNDARY AREA IN PSYCHOLOGY, JUNE 1981, NASHVILLE, TENNESSEE (BNS-8019715)*; 12 MONTHS $28,667

HARRIS, ALICE C; *THE INDIGENOUS LANGUAGES OF THE CAUCASUS: KARTVELIAN (BNS-8104170)*; 24 MONTHS $16,690

LAPPIN, JOSEPH S; *GEOMETRIC AND STATISTICAL DETERMINANTS OF METRIC STRUCTURE IN VISUAL PATTERNS (BNS-8118473)*; 12 MONTHS $54,873

KAAS, JON H; *CONFERENCE ON: THE ORGANIZATION, DEVELOPMENT, AND EVOLUTION OF SENSORY -PERCEPTUAL SYSTEMS - VANDERBILT UNIV, NOVEMBER 1981 (BNS-8117076)*; 6 MONTHS $9,995

TEXAS

BAYLOR COLLEGE OF MEDICINE

BLOSSER, JAMES C; *ACTIVITY DEPENDENT REGULATION OF CONTRACTILE PROTEIN AND ACETYLCHOLINE RECEPTOR (BNS-7914115 A02)*; 12 MONTHS $56,501

FOUNDATION FOR INTERDISCIPLINARY RESEARCH

BIESELE, MARGUERIT A, AND BOUSQUET, JOSEPH E; *ALTERNATIVE FOOD PLANTS FOR ARID REGIONS (BNS-8025941)*; 18 MONTHS $78,727

NORTH TEXAS STATE UNIVERSITY

SCHAFER, ROLLIE; *CHEMICALLY ACTIVE ODORANTS AS CHEMICAL PROBES OF OLFACTION (BNS-8108842)*; 12 MONTHS $48,000

RICE UNIVERSITY

GLANTZ, RAYMON M; *DISTRIBUTED PROCESSING OF SENSORY INFORMATION (BNS-7910335 A02)*; 12 MONTHS $51,521

CLARK, JOHN W; *EVOKED VOLUME CONDUCTED FIELD POTENTIALS FROM PERIPHERAL NERVE AND THE SPINAL CORD (BNS-8014059)*; 24 MONTHS $67,722

JOHNSON, DON H; *MATHEMATICAL MODELING OF SINGLE UNIT STUDIES OF BINAURAL INTERACTIONS (BNS-8022469)*; 12 MONTHS $18,992

SOUTHERN METHODIST UNIVERSITY

SAMPSON, GARTH C; *POPULATION DISTRIBUTION IN ECOLOGICALLY SIMPLE CONTEXTS (BNS-7914153 A01)*; 12 MONTHS $69,902

WENDORF, FRED; *RESEARCH ON THE PREHISTORY OF EGYPT (BNS-8023411)*; 12 MONTHS $69,129

PULTE, WILLIAM; *OKLAHOMA CHEROKEE (BNS-8023572)*; 24 MONTHS $32,466

MARKS, ANTHONY E; *NEOLITHIC ADAPTATION IN A MARGINAL ENVIRONMENT (BNS-8102649)*; 24 MONTHS $128,100

UNIV OF TEXAS AT AUSTIN-MARINE SCIENCE INSTITUTE AT GALVESTON

BUSKIRK, RUTH E; *CLUES TO EARTHQUAKE PREDICTION: THE EFFECT OF VIBRATION ON ANIMAL BEHAVIOR (BNS-8023668)*; 12 MONTHS $55,981

UNIV OF TEXAS AT AUSTIN

BITTNER, GEORGE D; *MECHANISMS OF NEURONAL REGENERATION (BNS-7727678 A01)*; 2 MONTHS $6,384

KARTTUNEN, FRANCES; *AN ANALYTICAL DICTIONARY OF NAHUATL (BNS-7817447 A01)*; 12 MONTHS $20,455

WICKLUND, ROBERT A; *MOTIVES AND STRATEGIES FOR CREATING ATTRIBUTE AMBIGUITY (BNS-7913838 A02)*; 12 MONTHS $45,000

THOMPSON, W[illegible] J; *RE-INNERVATION OF MUSCLE IN VITRO (BNS-8019731)*; 12 [illegible]THS $60,000

BITTNER, GEO[illegible]E D; *MECHANISMS OF NEURONAL REGENERATION (BNS-8022448)*; 24 MONTHS $70,000

POLLAK, GEORGE D; *REPRESENTATION OF BINAURAL INFORMATION IN THE BAT'S INFERIOR COLLICULUS (BNS-8110227)*; 12 MONTHS $55,561

SCHAEDEL, RICHARD P, AND MCEWAN, GORDON F; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8112729)*; 12 MONTHS $7,496

UNIV OF TEXAS AT DALLAS

RUPERT, ALLEN L, MOUSHEGIAN, GEORGE, AND LANGFORD, TED L; *NEURAL CORRELATES OF BINAURAL SIGNAL DETECTION (BNS-7914221 A02)*; 12 MONTHS $72,561

UNIV OF TEXAS HEALTH SCI CENTER AT SAN ANTONIO

BIEDENBACH, MARIA A; *NEURAL MECHANISMS OF OROFACIAL PAIN (BNS-7806953 A02)*; 12 MONTHS $22,714

UNIV OF TEXAS HEALTH SCIENCE CENTER AT DALLAS

MIHAILOFF, GREGORY A; *THE AFFERENT AND EFFERENT CONNECTIVITY OF BASILAR PONS (BNS-8004853 A01)*; 12 MONTHS $35,000

ROSENBERG, ROGER N; *INDUCTION OF A BRAIN PROTEIN IN NEUROBLASTOMA GLIOMA CO-CULTURES (BNS-8013443)*; 12 MONTHS $56,204

UNIV OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON

SPERLING, HARRY G; *COLOR RECEPTOR MOSAIC OF PRIMATES (BNS-7925599 A01)*; 12 MONTHS $55,438

BOUDREAU, JAMES C; *NEUROPHYSIOLOGICAL ANALYSIS OF SENSORY SYSTEMS OF THE FACIAL NERVE (BNS-8013036 A01)*; 12 MONTHS $68,000

BENNETT, WILLIAM F; *SYNAPTIC PLASTICITY IN BRAIN: BIOCHEMICAL STUDIES USING TWO 'MODEL' SYSTEMS (BNS-8041105)*; 12 MONTHS $53,000

CLEMENT-CORMIER, YVONNE C; *PURIFICATION AND CHARACTERIZATION OF THE DOPAMINE RECEPTOR (BNS-8103567)*; 24 MONTHS $100,037

UNIV OF TEXAS MEDICAL BRANCH AT GALVESTON-UNIV OF TEXAS MARINE BIOMEDICAL INSTITUTE

WONG, FULTON; *MOLECULAR MECHANISMS OF PHOTOTRANSDUCTION (BNS-8107067)*; 24 MONTHS $70,002

UNIV OF TEXAS MEDICAL BRANCH AT GALVESTON

PINSKER, HAROLD; *NEUROETHOLOGICAL ANALYSIS OF SIMPLE REFLEXES (BNS-8016431 A01)*; 12 MONTHS $43,000

UTAH

UNIVERSITY OF UTAH-COLLEGE OF MEDICINE

HORCH, KENNETH W; *SPECIFICITY IN REGENERATING MAMMALIAN SENSORY NEURONS (BNS-7916585 A01)*; 12 MONTHS $45,490

UNIVERSITY OF UTAH

CERLING, THURE E, AND BROWN, FRANCIS H; *PLIO-PLEISTOCENE PALEOCLIMATOLOGY AND CORRELATION BETWEEN EAST AFRICAN HOMINID LOCALITIES (BNS-8007354 A01)*; 12 MONTHS $76,455

LAMB, MICHAEL E; *DEVELOPING EXPECTATION IN INFANCY: A LONGITUDINAL STUDY OF BEHAVIOR IN TWO SOCIAL CONTEXTS (BNS-8021615)*; 24 MONTHS $100,000

O'CONNELL, JAMES F, AND DOBB, WALTER A; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8106249)*; 19 MONTHS $4,445

VERMONT

UNIVERSITY OF VERMONT-COLLEGE OF MEDICINE

ARIANO, MARJORIE A; *CYCLIC NUCLEOTIDE AND NEUROTRANSMITTER CYTOCHEMISTRY IN THE CAUDATE NUCLEUS (BNS-8102648)*; 12 MONTHS $75,000

PARSONS, RODNEY L; *KINETICS OF END-PLATE ACTIVATION AND DESENSITIZATION (BNS-8110974)*; 24 MONTHS $62,827

UNIVERSITY OF VERMONT

BOUTON, MARK E; *THE CONTEXT AS A DETERMINANT OF CONDITIONED FEAR (BNS-8105401)*; 24 MONTHS $40,993

VIRGINIA

COLLEGE OF WILLIAM AND MARY

BRUSH, STEPHEN B; *IPA MOBILITY ASSIGNMENT (STEPHEN BRUSH) (BNS-8104419)*; 11 MONTHS $802

BRUSH, STEPHEN B; *IPA MOBILITY ASSIGNMENT - STEPHEN B. BRUSH (BNS-8118271)*; 13 MONTHS $39,071

DEPARTMENT OF NAVY-OFFICE OF NAVAL RESEARCH

POLLARD, JOSEPH P; *SUPPORT FOR THE COMMITTEE ON VISION AND THE COMMITTEE ON HEARING, BIOACOUSTICS AND BIOMECHANICS OF THE NAS/NRC (BNS-7715827 A04)*; 12 MONTHS $40,000

GEORGE MASON UNIVERSITY

BROWN, LUTHER; *EXPERIMENTAL ANALYSES OF THE DETERMINANTS AND CONSEQUENCES OF SOCIAL ORGANIZATION (BNS-8103586)*; 36 MONTHS $54,807

UNIVERSITY OF VIRGINIA-SCHOOL OF MEDICINE

HACKETT, JOHN T; *LOCAL INTERACTIONS OF A LARGE VERTEBRATE INTERNEURON (BNS-8112742)*; 12 MONTHS $50,142

UNIVERSITY OF VIRGINIA

STEWARD, OSWALD; *BEHAVIORAL RECOVERY AND POST-LESION NEURONAL PLASTICITY (BNS-8021865)*; 12 MONTHS $49,000

BONVILLIAN, JOHN D, AND ORLANSKY, MICHAEL D; *EARLY SIGN LANGUAGE ACQUISITION AND COGNITIVE PREREQUISITES FOR LANGUAGE (BNS-8023114)*; 24 MONTHS $49,990

DAMON, FREDERICK H; *MECHANISMS OF INTERNAL EXCHANGE (BNS-8025063)*; 12 MONTHS $20,000

FRIESEN, WOLFGANG O; *NEURAL CONTROL OF MOVEMENT (BNS-8110243)*; 36 MONTHS $100,000

VIRGINIA COMMONWEALTH UNIVERSITY-HEALTH SCIENCES DIVISION

LEICHNETZ, GEORGE R; *CORTICAL AFFERENTS TO BRAINSTEM PREOCULOMOTOR NUCLEI (BNS-7822971 A02)*; 12 MONTHS $45,000

VIRGINIA COMMONWEALTH UNIVERSITY

MARTINEZ-CARRIO, MARINO; *MOLECULAR BIOPHYSICS APPROACH TO SYNAPTIC RECEPTORS (BNS-8021183)*; 12 MONTHS $65,059

STEIN, BARRY E; *SUPERIOR COLLICULUS: ORGANIZATION OF SOMATIC CELLS (BNS-8021559)*; 12 MONTHS $56,122

VIRGINIA POLYTECHNIC INSTITUTE

SIEGEL, PAUL B, AND VAN KREY, HARRY P; *PHYSIOLOGICAL AND GENETIC ANALYSES OF BEHAVIORS (BNS-7824493 A02)*; 12 MONTHS $38,609

WINETT, RICHARD A; *DEVELOPING GUIDELINES FOR COMFORT STANDARDS IN BUILDINGS: USING BEHAVIORAL PRINCIPLES IN FIELD EXPERIMENTS (BNS-7910256 A01)*; $8,723

WINETT, RICHARD A; *DEVELOPING COMFORT STANDARDS AND ENERGY CONSERVATION STRATEGIES IN BUILDINGS: USE OF VIDEO-MEDIA AND PERSONAL CONTACT IN FIELD EXPERIMENTS (BNS-7910256 A02)*; 30 MONTHS $127,938

SCHWAB, WALTER E; *INTERCELLULAR COMMUNICATION IN COELENTERATES (BNS-8004851 A01)*; 12 MONTHS $29,741

SCHMIDT, CONSTANCE R; *RESEARCH INITIATION: COMMUNICATIVE MEANS, COMMUNICATIVE PLANS AND CHILDREN'S ADAPTATION TO FLUCTUATIONS IN THE LISTENER'S BEHAVIOR (BNS-8107790)*; 24 MONTHS $39,991

WASHINGTON AND LEE UNIVERSITY

JARRARD, LEONARD E; *FUNCTIONAL DISSOCIATION WITHIN THE HIPPOCAMPAL FORMATION (BNS-8005735 A01)*; 12 MONTHS $30,626

WASHINGTON

UNIVERSITY OF WASHINGTON-SCHOOL OF MEDICINE

CATTERALL, WILLIAM A; *GENETIC ANALYSIS OF ELECTRICAL EXCITABILITY (BNS-8021619)*; 12 MONTHS $68,000

UNIVERSITY OF WASHINGTON

TELLER, DAVIDA Y; *VISION IN HUMAN INFANTS (BNS-7823053 A02)*; 12 MONTHS $42,500

LOFTUS, GEOFFREY R; *A THEORY OF MEMORY FOR VISUAL MATERIAL (BNS-7906522 A02)*; 12 MONTHS $34,537

PALKA, JOHN; *INSECT NEURAL DEVELOPMENT (BNS-7914111 A02)*; 12 MONTHS $42,162

SCHWARTZKROIN, PHILIP A; *LOCAL INTERACTIONS AMONG HIPPOCAMPAL NEURONS (BNS-7915115 A01)*; 12 MONTHS $30,000

NATHANSON, NEIL M; *INNERVATION AND DIFFERENTIATION OF THE HEART (BNS-8008664 A01)*; 12 MONTHS $60,000

ROHWER, SIEVERT A; *DETERMINANTS OF RELIABILITY IN SIGNALS OF DOMINANCE STATUS (BNS-8008957 A01*)*; 12 MONTHS $13,032

BORGATTI, JEAN M; *AESTHETIC ATTITUDES AND SOCIAL CHANGE IN OKPELLA (BNS-8012066)*; 12 MONTHS $44,946

KUHL, PATRICIA K; *PERCEPTION OF COMPLEX AUDITORY SIGNALS IN PRIMATES: AN ANIMAL MODEL FOR COMMUNICATION PROCESSES AND THEIR DEVELOPMENT (BNS-8022492)*; 12 MONTHS $56,789

LOFTUS, ELIZABETH F; *MEMORY FOR NATURAL EVENTS (BNS-8023404*)*; 24 MONTHS $114,743

BEECHER, MICHAEL D; *MECHANISMS OF KIN RECOGNITION (BNS-8023562)*; 12 MONTHS $56,109

KUHL, PATRICIA K; *COMPLEX AUDITORY PERCEPTION AND AUDITORY-VOCAL LEARNING IN EARLY INFANCY (BNS-8103581)*; 12 MONTHS $45,828

GRAYSON, DONALD K; *AN ANALYSIS OF THREE ARCHAEOLOGICAL FAUNAS (BNS-8107548*)*; 12 MONTHS $20,776

WENKE, ROBERT J; *AGRICULTURAL ORIGINS AND CULTURAL CHANGE (BNS-8112738)*; 12 MONTHS $28,429

WASHINGTON STATE UNIVERSITY

MOFFETT, STACIA B; *INTEGRATION IN THE AUTOTOMY REFLEX PATHWAY AND THE NEUROMUSCULAR ACTIVATION PATTERN (BNS-8022762)*; 36 MONTHS $45,000

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON-MEDICAL SCHOOL

WELKER, WALLACE I; *SOMATOSENSORY CIRCUITS OF THE CEREBELLUM (BNS-8022321)*; 12 MONTHS $68,190

UNIVERSITY OF WISCONSIN-MADISON

MINEKA, SUSAN; *DETERMINANTS OF FEAR AND FEAR EXTINCTION (BNS-7823612 A02)*; 12 MONTHS $31,214

BRUGGE, JOHN F; *ORGANIZATION OF AUDITORY CORTEX (BNS-7912939 A01)*; 12 MONTHS $75,000

KUNG, CHING; *ELECTROPHYSIOLOGY OF WILD-TYPE AND MUTANT PARAMECIUM (BNS-7918554 A01)*; 12 MONTHS $64,000

CASSIDY, FREDERIC G; *DICTIONARY OF AMERICAN REGIONAL ENGLISH (BNS-7924032 A01)*; 12 MONTHS $24,190

HABERLY, LEWIS B; *ULTRASTRUCTURAL ANALYSIS OF PHYSIOLOGICALLY CHARACTERIZED NEURONS IN THE PIRIFORM CORTEX (BNS-8012067 A01)*; 12 MONTHS $35,000

PENROD, STEVEN; *EMPIRICALLY-BASED MODELS OF JUROR AND JURY DECISION-MAKING (SES-8013331*)*; 24 MONTHS $38,274

HARTING, JOHN K; *MULTIUSER EQUIPMENT PROPOSAL IN THE NEUROSCIENCES (BNS-8019495)*; 12 MONTHS $100,000

WILKINSON, ALEX C; *AGING OF HUMAN MEMORY: STUDIES OF SPEED AND ACCURACY (BNS-8022486)*; 12 MONTHS $29,275

GALT, ANTHONY H; *THE ECOLOGICAL ANTHROPOLOGY OF INTENSIVE AGRICULTURE (BNS-8023297)*; 12 MONTHS $49,000

NELSON, DAVID L; *THE ROLE OF LIPIDS IN MEMBRANE EXCITATION IN PARAMECIUM (BNS-8100832)*; 12 MONTHS $80,031

HARVEY, HERBERT R; *NUMERICAL NOTATION AND MATHEMATICS (BNS-8111804)*; 12 MONTHS $20,398

JEANNE, ROBERT L; *COMMUNICATION, SPECIALIZATION AND TASK PARTITIONING (BNS-8112744)*; 24 MONTHS $54,999

HARTING, JOHN K; *IPA MOBILITY ASSIGNMENT (JOHN K HARTING) (BNS-8119387)*; 13 MONTHS $47,025

UNIVERSITY OF WISCONSIN-MILWAUKEE

WARREN, RICHARD M; *PERCEPTION OF AUDITORY TEMPORAL PATTERNS (BNS-7912402 A01)*; 12 MONTHS $40,000

TURNER, TRUDY R, AND MOTT, CAROL S; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8104435)*; 12 MONTHS $3,927

FOWLER, MELVIN L, AND AHLER, STEVEN R; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (BNS-8109643)*; 18 MONTHS $9,375

WISCONSIN DEPT OF HEALTH AND SOCIAL SERVICES

WELT, CAROL; *STRUCTURAL-FUNCTIONAL STUDIES OF THE TRIGEMINAL GANGLION (BNS-8021609)*; 12 MONTHS $39,551

INFORMATION SCIENCE AND TECHNOLOGY ACTIVITIES

CALIFORNIA

LOGICON INC

MONTGOMERY, CHRISTINE A; *WORKSHOP ON LOGIC PROGRAMMING FOR INTELLIGENT SYSTEMS; AUGUST 18 - 21, 1981; LONG BEACH, CA (IST-8113182)*; 6 MONTHS $34,729

SRI INTERNATIONAL

ROBINSON, JANE J; *COMPUTATIONAL EFFICIENCY OF FORMAL GRAMMARS (IST-8103550)*; 24 MONTHS $169,826

STANFORD UNIVERSITY

WIEDERHOLD, GIO; *THEORY AND COMPUTATION FOR NATURAL-LANGUAGE QUESTION-ANSWERING (IST-8023889)*; 24 MONTHS $50,209

AGNEW, CARSON E; *INNOVATION AND EFFICIENCY IN SPECTRUM MANAGEMENT: THEORETICAL ANALYSIS (IST-8108350)*; 12 MONTHS $132,436

PINKER, STEVEN; *MENTAL REPRESENTATION OF 3-D SPACE (BNS-8114916*)*; 17 MONTHS $30,253

UNIVERSITY OF CALIFORNIA, BERKELEY

ZADEH, LOTFI A; *A THEORY OF APPROXIMATE REASONING (MCS-7906543 A02*)*; 12 MONTHS $15,750

WILENSKY, ROBERT; *MODELING CONTEXTUAL LANGUAGE UNDERSTANDING (IST-8007045)*; 24 MONTHS $124,433

ZADEH, LOTFI A; *ANALYSIS OF IMPRECISE INFORMATION (IST-8018196)*; 36 MONTHS $195,825

COOPER, WILLIAM S; *NONSTANDARD DECISION RULES AND INFORMATION REPRESENTATIONS (IST-8113213)*; 24 MONTHS $75,046

UNIVERSITY OF CALIFORNIA, IRVINE

INDOW, TAROW; *GEOMETRICAL STRUCTURE IN PERCEPTUAL SYSTEMS (IST-8023893)*; 24 MONTHS $90,075

UNIVERSITY OF SOUTHERN CALIFORNIA

DUTTON, WILLIAM H; *ORGANIZATIONAL IMPACT OF VIDEO-TELECONFERENCING: PILOT STUDY (IST-8023063)*; 7 MONTHS $34,754

HULL, RICHARD B; *THEORETICAL INVESTIGATION OF DATABASE CONSTRAINTS AND SEMANTIC CONSTRUCTS (IST-8107480)*; 24 MONTHS $28,949

COLORADO

INSTITUTE FOR COURT MANAGEMENT

MAHONEY, BARRY, AND NEJELSKI, PAUL; *EVALUATION OF TELEPHONE CONFERENCING TO CONDUCT CIVIL MOTION HEARINGS (IST-8024715)*; 24 MONTHS $186,414

CONNECTICUT

YALE UNIVERSITY

SCHANK, ROGER C; *THEORETICAL FOUNDATIONS OF NATURAL LANGUAGE PROCESSING (IST-8017790 A01)*; $16,215

SOLOWAY, ELLIOT M; *INFORMATION PROCESSING IN ALGEBRA AND COMPUTER PROGRAMMING (IST-8114840)*; 24 MONTHS $125,489

DISTRICT OF COLUMBIA

HOWARD UNIVERSITY

GANDY, OSCAR H; *TENTH ANNUAL TELECOMMUNICATIONS POLICY RESEARCH CONFERENCE, APRIL 25-28, 1982, ANNAPOLIS, MARYLAND (IST-8117704)*; 14 MONTHS $17,000

NATIONAL ACADEMY OF SCIENCES

CARTER, GESINA C; *PARTIAL SUPPORT OF THE NUMERICAL DATA ADVISORY BOARD (NDAB) (IST-8019605)*; 6 MONTHS $15,136

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

CARTER, GESINA C; *PARTIAL PAYMENT OF DUES FROM THE USA FOR THE COMMITTEE ON DATA FOR SCIENCE AND TECHNOLOGY OF THE INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS (IST-7918479 A02)*; 12 MONTHS $12,000

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY MAIN CAMPUS

KOLODNER, JANET L; *A COMPUTER MEMORY FOR CURRENT EVENTS (IST-8116892)*; 24 MONTHS $132,664

ROUSE, WILLIAM B; *MODELING OF HUMAN BEHAVIOR IN SEEKING AND GENERATING INFORMATION (IST-8119994)*; 12 MONTHS $60,000

ILLINOIS

UNIVERSITY OF CHICAGO

BOOKSTEIN, ABRAHAM; *ROBUSTNESS PROPERTIES OF THE BIBLIOMETRIC LAWS (IST-8026564)*; 12 MONTHS $23,810

INDIANA

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS

WINKLER, ROBERT L; *RESEARCH ON INFORMATION AGGREGATION AND VALUE (IST-8018578)*; 24 MONTHS $46,793

PURDUE UNIVERSITY

WHINSTON, ANDREW B; *DEVELOPMENT OF A COMPUTERIZED DECISION SUPPORT SYSTEM (IST-8108519)*; 24 MONTHS $240,138

SCHWEICKERT, RICHARD J; *ANALYSIS OF REACTION TIMES USING SCHEDULING THEORY (IST-8110535)*; 24 MONTHS $66,686

KANSAS

UNIVERSITY OF KANSAS MAIN CAMPUS

KEMPER, SUSAN; *AN INFORMATION THEORETIC APPROACH TO READING (IST-8110439)*; 24 MONTHS $76,989

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

KRAFT, DONALD H; *MODELLING OF GENERALIZATIONS OF BOOLEAN QUERY PROCESSING IN INFORMATION RETRIEVAL SYSTEMS (IST-8115146)*; 12 MONTHS $34,722

MARYLAND

KING RESEARCH INC

KING, DONALD W; *STATISTICAL INDICATORS OF SCIENTIFIC AND TECHNICAL COMMUNICATION IN THE UNITED STATES (IST-7506342 A09)*; $9,808

KING, DONALD W; *A SYSTEMS ANALYSIS OF SCIENTIFIC AND TECHNICAL COMMUNICATION IN THE UNITED STATES (IST-7615515 A06)*; $8,009

MASSACHUSETTS

HARVARD UNIVERSITY

PINKER, STEVEN; *THE MENTAL REPRESENTATION OF 3-D SPACE (BNS-8024337*)*; 24 MONTHS $12,188

HERRNSTEIN, RICHARD J; *STUDIES ON NATURAL AND ARTIFICIAL VISUAL CATEGORIES (IST-8100404)*; 24 MONTHS $218,785

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

RICHARDS, WHITMAN A; *NATURAL COMPUTATION AND CONTROL (SES-7923110 A01*)*; 12 MONTHS $115,000

KLATT, DENNIS H; *AUDITORY INFORMATION PROCESSING AND SPEECH PERCEPTION (IST-8017599)*; 18 MONTHS $142,000

SLOTKIN, HELEN W; *APPRAISAL AND RECORDS MANAGEMENT GUIDELINES FOR SCIENTIFIC AND TECHNOLOGICAL RECORDS (SES-8109479*)*; 24 MONTHS $59,000

UNIVERSITY OF MASSACHUSETTS, AMHERST

RISSLAND, EDWINA L; *THE STRUCTURE OF EXAMPLES (IST-8017343)*; 24 MONTHS $147,848

ARBIB, MICHAEL A, AND MCDONALD, DAVID D; *DYNAMIC INTERACTION OF MULTIPLE REPRESENTATIONS: VISION AND LANGUAGE (IST-8104984)*; 36 MONTHS $174,416

MICHIGAN

UNIVERSITY OF MICHIGAN-ANN ARBOR

HOLLAND, JOHN H; *RESEARCH ON ADAPTIVE KNOWLEDGE ACQUISITION SYSTEMS (IST-8018043)*; 24 MONTHS $118,437

FRIEDMAN, JOYCE B; *COMPUTATIONAL STUDIES OF THE REPRESENTATION OF INFORMATION IN LOGIC AND IN NATURAL LANGUAGE (IST-8105335)*; 24 MONTHS $123,541

MINNESOTA

UNIVERSITY OF MINNESOTA

HURWICZ, LEONID; *COMPARISON AND ANALYSIS OF SYSTEMS AND TECHNIQUES OF ECONOMIC ORGANIZATIONS (SES-7825734 A02*)*; 12 MONTHS $27,999

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

FLOWERS, JOHN H; *RESEARCH ON HUMAN INFORMATION PROCESSING OF VISUAL DISPLAYS (IST-8110544)*; 24 MONTHS $60,429

NEW JERSEY

COMPUTER HORIZONS INC

MCALLISTER, PAUL; *INTERRELATIONSHIPS BETWEEN FEDERAL FUNDING AND PRODUCTION OF SCIENTIFIC PAPERS (IST-8019038)*; 12 MONTHS $95,163

NEW MEXICO

UNIVERSITY OF NEW MEXICO

SCALETTI, JOSEPH V; *THE USE OF TELECONFERENCING IN ADMINISTRATIVE FAIR HEARINGS (IST-7715516 A07)*; $31,971

NEW YORK

BROOKLYN COLLEGE

TENENBAUM, AARON M; *EFFICIENCY OF SEQUENTIAL SEARCH ALGORITHMS (IST-8021350)*; 24 MONTHS $84,646

CENTER FOR POLICY RESEARCH INC

WEINER, STEPHEN B; *PARTIAL SUPPORT FOR A WORKSHOP ON INFORMATION RETRIEVAL, NOVEMBER 18 - 20, 1980, WASHINGTON, D. C. (IST-8018904)*; 6 MONTHS $6,538

COLUMBIA UNIVERSITY

HARRIS, ZELLIG S; *INFORMATION CORRELATES OF BASIC LANGUAGE STRUCTURES (IST-8017043 A01)*; $115,471

CORNELL UNIVERSITY

SALTON, GERARD; *MATHEMATICAL MODELS IN AUTOMATIC INFORMATION RETRIEVAL (IST-8108696)*; 24 MONTHS $132,054

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

SALTON, GERARD; *AUTOMATIC INDEXING AND CLUSTERED FILE SEARCH METHODOLOGIES APPLIED TO BUSINESS CORRESPONDENCE (IST-8017589)*; 24 MONTHS $147,435

NEW YORK UNIVERSITY

MACHLUP, FRITZ; *KNOWLEDGE: ITS CREATION, DISTRIBUTION, AND ECONOMIC SIGNIFICANCE (IST-7914210 A01)*; 24 MONTHS $173,493

SAGER, NAOMI; *COMPUTABLE MODELS OF TIME AND QUANTITY IN NATURAL LANGUAGE DATA (IST-8115669*)*; 24 MONTHS $184,451

POLYTECHNIC INSTITUTE OF NEW YORK

KAUFMAN, HAROLD G; *FACTORS RELATED TO USE OF SCIENTIFIC AND TECHNICAL INFORMATION AND EFFECTIVENESS OF ENGINEERS: A LONGITUDINAL STUDY (IST-7718048 A02)*; 8 MONTHS $10,000

RENSSELAER POLYTECHNIC INSTITUTE

CAPORAEL, LINNDA R; *ATTRIBUTION OF HUMAN CHARACTERISTICS TO MACHINE INTELLIGENCE (IST-8110625)*; 12 MONTHS $34,785

STATE UNIVERSITY AT STONY BROOK

WARREN, DAVID S; *REPRESENTING SEMANTIC INFORMATION WITHIN DATABASES (IST-8104834)*; 24 MONTHS $183,755

SCIORE, EDWARD; *INCORPORATING STRUCTURE AND SEMANTICS INTO RELATIONAL DATABASES (IST-8109834)*; 24 MONTHS $53,821

SYRACUSE UNIVERSITY

TAYLOR, ROBERT S; *VALUE ADDED PROCESSES IN THE INFORMATION LIFE CYCLE (IST-8106080)*; 18 MONTHS $166,612

UNIVERSITY OF ROCHESTER

ELLIS, CARLA S; *CONCURRENCY IN THE ACCESS AND MANIPULATION OF INFORMATION STRUCTURES (IST-8025761*)*; 24 MONTHS $67,381

NORTH CAROLINA

DUKE UNIVERSITY

BALLARD, BRUCE W; *NATURAL LANGUAGE INTERFACES TO 'LAYERED DOMAINS: A MULTIPLE-PROTOTYPE APPROACH (MCS-8116607*)*; 24 MONTHS $31,000

NORTH DAKOTA

UNIVERSITY OF NORTH DAKOTA MAIN CAMPUS

PAYNE, DAVID E; *EFFECTS OF MASS MEDIA INTERPERSONAL CONTACT AND SOCIAL BACKGROUND IN A RURAL CROSS NATIONAL SETTING: A LONGITUDINAL STUDY (IST-8104609)*; 36 MONTHS $59,811

OHIO

CASE WESTERN RESERVE UNIVERSITY

SARACEVIC, TEFKO; *CLASSIFICATION AND STRUCTURE OF QUESTIONS IN INFORMATION RETRIEVAL (IST-8015335)*; 12 MONTHS $101,782

OBERLIN COLLEGE

FROHMBERG, KATHERINE; *RESEARCH ON THE IMPACT OF A COMPUTERIZED CIRCULATION SYSTEM ON THE PERFORMANCE OF A LARGE SCALE COLLEGE LIBRARY (IST-7810821 A02)*; 8 MONTHS $7,500

TANTALUS INC

KANTOR, PAUL B; *STUDY OF THE COST FUNCTION FOR ACADEMIC LIBRARIES (IST-8110510*)*; 24 MONTHS $99,957

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

ANDERSON, JOHN R; *AN INFORMATION PROCESSING ANALYSIS OF LEARNING IN GEOMETRY (IST-8015357*)*; 36 MONTHS $134,742

MORGAN, M GRANGER; *EXPERIMENTAL ANALYSIS OF FACTORS IN THE DESIGN OF INFORMATION SYSTEMS FOR MODELLING ENGINEERING/ECONOMIC DECISIONS (IST-8112439)*; 18 MONTHS $225,934

FRANKLIN INSTITUTE

PETERS, ALEC; *SUPPORT FOR COORDINATION OF SCIENTIFIC AND TECHNICAL INFORMATION ACTIVITIES (IST-7714816 A07)*; 12 MONTHS $120,000

TEMPLE UNIVERSITY

BANERJI, RANAN B; *FLEXIBILITY AND EFFICIENCY OF KNOWLEDGE REPRESENTATION IN INTELLIGENT INFORMATION SYSTEMS (MCS-8110104*)*; 24 MONTHS $39,298

UNIVERSITY OF PENNSYLVANIA

ALLEN, BETH E; *ALTERNATIVE REPRESENTATIONS OF INFORMATION IN MICROECONOMIC SYSTEMS (IST-7918464 A01)*; 24 MONTHS $125,959

RHODE ISLAND

BROWN UNIVERSITY

ANDERSON, JAMES A; *COGNITIVE APPLICATIONS OF MATRIX MEMORY MODELS (BNS-7923000 A01*)*; 12 MONTHS $12,668

CHARNIAK, EUGENE; *RESEARCH ON NATURAL LANGUAGE PROCESSING (FRAME SELECTION) (IST-8013690)*; 24 MONTHS $131,920

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

HUBER, GEORGE P, AND THESEN, ARNE; *A STUDY OF THE DISTRIBUTION, PROCESSING, AND USE OF SCIENTIFIC AND TECHNICAL INFORMATION IN RESEARCH ORGANIZATIONS (IST-7913382 A01)*; 14 MONTHS $95,253

ASTRONOMICAL, ATMOSPHERIC, EARTH AND OCEAN SCIENCE

ATMOSPHERIC SCIENCES

ALASKA

UNIVERSITY OF ALASKA FAIRBANKS CAMPUS-GEOPHYSICAL INSTITUTE

WILSON, CHARLES R; *MIDDLE ATMOSPHERE WIND STUDY BY MICROBAROM ANALYSIS (ATM-7911891 A01)*; 12 MONTHS $93,000

WENDLER, GERD, AND EATON, FRANK D; *ON DESERTIFICATION IN THE NORTHERN SAHARA (ATM-7915798 A01)*; 12 MONTHS $66,000

KAN, JOSEPH R, AND LEE, L C; *A THEORETICAL STUDY OF SUBSTORM PROCESSES (ATM-7916470 A01)*; 12 MONTHS $120,300

SHERIDAN, ROGER; *LABORATORY STUDIES OF ATMOSPHERIC HYDROGEN BALMER EMISSIONS (ATM-7916508 A01)*; 12 MONTHS $30,000

SWIFT, DANIEL W; *THEORETICAL STUDIES OF AURORAL AND MAGNETOSPHERIC PHENOMENA (ATM-7923614 A01)*; 12 MONTHS $110,300

STAMNES, KNUT; *MULTIPLE LIGHT SCATTERING AND RADIATIVE TRANSFER IN CLOUDS AND AEROSOL LAYERS CONSISTING OF NONSPHERICAL PARTICLES (ATM-7926406)*; 12 MONTHS $28,600

DEGEN, VLADIMIR; *SUNLIGHT SCATTERING AND SWINGS EFFECT IN MAGNETOSPHERIC CLEFT N2 FIRST NEGATIVE SPECTRA (ATM-8005362)*; 12 MONTHS $40,000

HUNSUCKER, ROBERT D; *CONTINUED SUPPORT SERVICES FOR USERS OF THE CHATANIKA INCOHERENT SCATTER RADAR (ATM-8011952)*; 12 MONTHS $68,900

ROMICK, GERALD J, AND SIVJEE, GULAMABAS G; *ANALYSIS OF IMS MERIDIAN SCANNING PHOTOMETER DATA WITH RESPECT TO MAGNETOSPHERIC ACTIVITY (ATM-8012711)*; 12 MONTHS $80,000

DEEHR, CHARLES S, AND SIVJEE, GULAMABAS G; *OPTICAL STUDIES OF THE MAGNETOSPHERIC CUSP FROM WEST SPITSBERGEN (ATM-8012719)*; 12 MONTHS $90,000

REES, MANFRED H, AND SIVJEE, GULAMABAS G; *THERMOSPHERIC NEUTRAL WINDS AND TEMPERATURE (ATM-8015320)*; 12 MONTHS $90,000

OLSON, JOHN V; *RESONANT STRUCTURES IN THE HIGH-LATITUDE MAGNETOSPHERE (ATM-8016166)*; 12 MONTHS $48,200

GOSINK, THOMAS A; *ATMOSPHERIC LOADING OF ORGANIC GASES AND PARTICULATES: A NEW APPROACH (ATM-8016872)*; 12 MONTHS $90,464

HALLINAN, THOMAS J, AND STENBAEK-NIELSE, H C; *ADVANCES IN THE USE OF STEREO TV IMAGING FOR AURORAL RESEARCH (ATM-8019445)*; 12 MONTHS $95,100

HALLINAN, THOMAS J, AND STENBAEK-NIELSE, H C; *ADVANCES IN THE USE OF STEREO TV IMAGING FOR AURORAL RESEARCH (ATM-8019445 A01)*; $2,800

ROEDERER, JUAN G; *DISK DRIVE FOR SPACE PHYSICS AND AERONOMY RESEARCH (ATM-8019462)*; 12 MONTHS $30,200

STENBAEK-NIELSE, HANS C; *A STUDY OF THIN LAYERS IN PULSATING AURORAS (ATM-8025631)*; 12 MONTHS $55,000

AKASOFU, SYUN-ICHI; *A STUDY OF MAGNETIC AND AURORAL DATA FROM THE IMS ALASKA MERIDIAN CHAIN OBSERVATORIES (ATM-8108994)*; 12 MONTHS $98,803

HUNSUCKER, ROBERT D; *SCIENTIFIC CAMPAIGNS USING THE NOAA/NSF HF RADAR AT THE CLEARY FIELD SITE (ATM-8110559)*; 12 MONTHS $50,000

WATKINS, BRENTON J, AND JAYAWEERA, KOLF; *DUAL RADAR OBSERVATIONS OF TURBULENCE IN THE UPPER TROPOSPHERE AND LOWER STRATOSPHERE (ATM-8111139*)*; 12 MONTHS $93,400

OLSON, JOHN V; *A PROGRAM TO INVESTIGATE THE ULF PULSATION SPECTRUM AT HIGH-LATITUDES AND IN THE POLAR CAP (ATM-8111465*)*; 12 MONTHS $153,769

AKASOFU, SYUN-ICHI; *A STUDY OF MAGNETOSPHERIC SUBSTORMS (ATM-8115331*)*; 12 MONTHS $144,500

BROWN, NEAL B; *MEASUREMENTS AND COMPARISONS OF METEOROLOGICAL DATA IN THE MIDDLE ATMOSPHERE (ATM-8118194*)*; 12 MONTHS $50,000

UNIVERSITY OF ALASKA FAIRBANKS CAMPUS

DEGEN, VLADIMIR; *COMPUTER MODELING OF MOLECULAR SPECTRA FOR AURORAL STUDIES (ATM-7918790 A01)*; 12 MONTHS $35,000

REES, MANFRED H; *EXPERIMENTAL AND THEORETICAL RESEARCH ON THE AURORA BOREALIS (ATM-7923566 A01)*; 12 MONTHS $92,800

ARIZONA

ARIZONA STATE UNIVERSITY

BUSECK, PETER R; *QUANTITATIVE ANALYSES OF INDIVIDUAL AIRBORNE MICROPARTICLES USING ELECTRON BEAM TECHNIQUES (ATM-8022849)*; 12 MONTHS $189,510

LIGHTNING LOCATION & PROTECTION INC

MAIER, MICHAEL W; *REGIONAL VARIATIONS IN THE SPATIAL AND TEMPORAL PROPERTIES OF CLOUD-TO-GROUND LIGHTNING (ATM-8111461)*; 12 MONTHS $32,930

LOWELL OBSERVATORY

LOCKWOOD, G W; *SOLAR AND PLANETARY VARIATIONS NEAR SOLAR MAXIMUM (ATM-8016379)*; 24 MONTHS $106,000

UNIVERSITY OF ARIZONA

SELLERS, WILLIAM D; *CLIMATE MODELING AND STATISTICAL ANALYSES (ATM-7902781 A02)*; 12 MONTHS $47,200

MARKGRAF, VERA; *PALEOCLIMATIC RECONSTRUCTION OF THE LAST 15,000 YEARS OF TEMPERATE AND SUBTROPICAL REGIONS IN ARGENTINA AND NORTH AMERICA (ATM-7919771 A01)*; 12 MONTHS $62,000

GALL, ROBERT L, AND STALEY, DEAN O; *THE DYNAMICS OF MID-LATITUDE EDDIES (ATM-7920158 A01)*; 12 MONTHS $55,800

STOCKTON, CHARLES W; *PROJECTED EFFECTS OF CLIMATIC VARIATION UPON WATER AVAILABILITY IN WESTERN UNITED STATES (ATM-7924365 A01)*; 12 MONTHS $103,600

HERMAN, BENJAMIN M, REAGAN, JOHN A, AND SCHOTLAND, RICHARD M; *PROPERTIES AND RADIATION EFFECTS OF ATMOSPHERIC AEROSOLS (ATM-8012908)*; 12 MONTHS $115,900

BATTAN, LOUIS J; *MICROWAVE BACKSCATTERING AND ATTENUATION BY SPONGY ICE SPHERES (ATM-8012921)*; 24 MONTHS $52,200

TWOMEY, SEAN A; *RADIATIVE PROPERTIES OF STRATIFORM CLOUD LAYERS (ATM-8017024)*; 12 MONTHS $21,500

DAMON, PAUL E; *CALIBRATION OF THE RADIOCARBON TIME SCALE (DES-8022250*)*; 18 MONTHS $12,000

FRITTS, HAROLD C; *TREE-RING CHRONOLOGY DEVELOPMENT IN NORTH AMERICA WITH EMPHASIS IN CALIFORNIA AND OREGON (ATM-8096752)*; 12 MONTHS $109,850

ARKANSAS

ARKANSAS ARCHEOLOGICAL SURVEY

STAHLE, DAVID W, AND HEHR, JOHN G; *THE DEVELOPMENT OF MODERN TREE-RING CHRONOLOGIES IN THE MIDWEST: ARKANSAS, NORTH TEXAS, OKLAHOMA, KANSAS, AND MISSOURI (ATM-8006964 A01)*; 4 MONTHS $6,400

UNIVERSITY OF ARKANSAS FAYETTEVILLE

KURODA, PAUL K; *ATMOSPHERIC RADIOCHEMISTRY (ATM-7819965 A01)*; 12 MONTHS $76,293

ANDERSON, RICHARD J, AND SALAMO, GREGORY J; *EXCITATION OF ATOMIC OXYGEN BY LOW-ENERGY ELECTRON IMPACT (ATM-7918900 A01)*; 12 MONTHS $50,500

CALIFORNIA

AEROSPACE CORPORATION

HOLZWORTH, ROBERT H, AND EDGAR, BRUCE C; *ELECTRODYNAMICS OF THE MIDDLE ATMOSPHERE: SUPERPRESSURE BALLOON PROGRAM (ATM-8017071*)*; 12 MONTHS $50,200

KOONS, HARRY C; *COORDINATION AND ANALYSIS OF SCATHA VLF DATA (ATM-8019060)*; 12 MONTHS $63,800

CALIFORNIA INSTITUTE OF TECHNOLOGY

ZIRIN, HAROLD; *RESEARCH IN SOLAR ACTIVITY AND SOLAR PROMINENCES (ATM-7911139 A01)*; 12 MONTHS $166,482

EPSTEIN, SAMUEL; *CLIMATIC IMPLICATIONS OF THE D/H, 13C/12C, 18O/16O IN TREE RINGS (ATM-8018850)*; 12 MONTHS $130,200

ZIRIN, HAROLD; *RADIO OBSERVATIONS OF THE SUN AT CENTIMETER AND MILLIMETER WAVELENGTHS (ATM-8108449)*; 12 MONTHS $128,500

COMPASS SYSTEMS INC

BAUER, ROGER A, AND ROBINSON, MARGARET K; *CONTINUATION OF ANALYSIS OF OCEANOGRAPHIC DATA OF THE SURFACE LAYER (0-150 M) IN THE SOUTHERN HEMISPHERE AND PREPARATION OF THE RESULTS FOR PUBLICATION IN AN ATLAS (39M-7923183 A03)*; 12 MONTHS $204,000

HARVEY MUDD COLLEGE

KOK, GREGORY L; *SAMPLING TECHNIQUES FOR ATMOSPHERIC FORMALDEHYDE (ATM-7819671 A01)*; 4 MONTHS $3,400

LOCKHEED MISSILES AND SPACE COMPANY INC-LOCKHEED PALO ALTO RESEARCH LABORATORY

MENDE, STEPHEN B; *MERIDIAN PHOTOMETER CHAIN DATE REDUCTION (ATM-8015673)*; 12 MONTHS $63,000

NAVAL POSTGRADUATE SCHOOL

LAU, WILLIAM K, AND CHANG, CHIH-PEI; *LARGE SCALE ATMOSPHERE-OCEAN COUPLING (ATM-7924010 A01*)*; 12 MONTHS $40,000

RAND CORPORATION

DEIRMENDJIAN, DIRAN; *THE USE OF ELECTROMAGNETIC (INFRARED THROUGH MILLIMETER) WAVE SCATTERING TECHNIQUES IN CLOUD AND RAIN MICROPHYSICS RESEARCH (ATM-7925342)*; 12 MONTHS $52,376

SRI INTERNATIONAL

VICKREY, JAMES F; *PLASMA-LINE STUDIES WITH THE INCOHERENT-SCATTER RADAR AT ARECIBO (ATM-7621305 A04)*; 12 MONTHS $14,200

BARON, MURRAY J, AND VONDRAK, R R; *CHATANIKA INCOHERENT-SCATTER RADAR FACILITY OPERATION AND COORDINATION (ATM-7823658 A03)*; 12 MONTHS $732,900

SAXON, ROBERTA P; *COLLISION SPECTROSCOPY IN DIATOMIC SYSTEMS (ATM-7825406 A02*)*; 12 MONTHS $49,900

ROSS, DAVID S, AND HENDRY, DALE; *NOX-AEROSOL CHEMISTRY IN THE ATMOSPHERE (ATM-7922008 A01)*; 12 MONTHS $90,774

MURRAY, EDWARD R; *INFRARED PROPERTIES OF AEROSOLS (ATM-7925988)*; 12 MONTHS $113,891

MURRAY, EDWARD R; *INFRARED PROPERTIES OF AEROSOLS (ATM-7925988 A01)*; 12 MONTHS $138,000

KELLY, JOHN D; *SUPPLEMENT TO CHATANIKA RADAR RELOCATION ENGINEERING STUDY (ATM-7927050 A01)*; $6,900

BLACK, GRAHAM; *PHOTOCHEMISTRY AND KINETICS OF STRATOSPHERIC SULPHUR SPECIES (ATM-8011283)*; 12 MONTHS $69,000

BHUMRALKAR, CHANDRAKA M, AND LUDWIG, FRANCIS L; *THEORETICAL AND OBSERVATIONAL STUDY OF THE CAUSES OF INADVERTENT WEATHER MODIFICATION (ATM-8011295 A01)*; 12 MONTHS $70,000

SLANGER, TOM G; *SPECTRAL ANALYSIS OF THE 3100-4500 ANGSTROM NIGHTGLOW EMISSION (ATM-8011954*)*; 12 MONTHS $32,100

RINO, CHARLES L; *GLOBAL CHARACTERIZATION OF IONOSPHERIC F-REGION IRREGULARITIES (ATM-8024129)*; 6 MONTHS $35,000

KELLY, JOHN D; *RELOCATION OF THE SRI INCOHERENT-SCATTER RADAR FROM CHATANIKA, ALASKA TO A VERY HIGH GEOMAGNETIC LATITUDE (ATM-8024889)*; 8 MONTHS $1,129,000

TALLMADGE, GENE E; *PROPOSAL TO UPGRADE THE JICAMARCA RADIO OBSERVATORY 50MHZ TRANSMITTER (29M-8025353*)*; 6 MONTHS $194,000

LEE, LONG C; *CHARACTERIZATION OF AITKEN AEROSOL PARTICLES BY OPTICAL EXCITATION (ATM-8026734)*; 12 MONTHS $84,980

LEE, LONG C; *EMISSIONS FROM PHOTOFRAGMENTS OF ATMOSPHERIC RADICALS AND MOLECULES (ATM-8109542)*; 12 MONTHS $78,270

SINGH, HANWANT B; *MEASUREMENT OF ORGANIC NITROGEN COMPOUNDAS IN THE UNPOLLUTED TROPOSPHERE (EDU 81-32) (ATM-8111758)*; 24 MONTHS $149,400

STANFORD UNIVERSITY

CRAWFORD, FREDERICK W, AND HARKER, KENNETH J; *LABORATORY EXPERIMENTS ON SPACE PLASMAS (ATM-7808440 A01)*; 12 MONTHS $31,000

HELLIWELL, ROBERT A; *STUDIES OF MAGNETOSPHERE-IONOSPHERE-ATMOSPHERE INTERACTIONS (ATM-8018248)*; 12 MONTHS $97,600

WILCOX, JOHN M; *DYNAMIC OBSERVATIONS SOLAR MAGNETIC AND VELOCITY FIELDS (ATM-8020421)*; 12 MONTHS $131,700

UNIVERSITY OF CALIFORNIA, BERKELEY

MOZER, FORREST S; *ANALYSES OF BALLOON ELECTRIC FIELD DATA OBTAINED DURING THE INTERNATIONAL MAGNETOSPHERIC STUDY (ATM-8002097 A01)*; 12 MONTHS $52,500

BYRNE, ROGER; *LATE QUATERNARY CLIMATIC CHANGE IN THE GULF OF CALIFORNIA: AN INVESTIGATION OF TERRESTRIAL AND MARINE EVIDENCE CONTAINED IN VARVED SEDIMENTS FROM THE GUAYMAS SLOPE (ATM-8041221)*; 12 MONTHS $47,550

HUDSON, MARY K; *A THEORETICAL AND NUMERICAL STUDY OF SMALL AMPLITUDE NONLINEAR WAVES AND THEIR TEMPORAL EVOLUTION IN THE AURORAL PLASMA (ATM-8103547)*; 12 MONTHS $51,700

UNIVERSITY OF CALIFORNIA, DAVIS

WEARE, BRYAN C; *DIAGNOSTIC STUDIES OF THE POSSIBLE ATMOSPHERIC RESPONSES TO EL NINO (ATM-8017049)*; 12 MONTHS $40,700

UNIVERSITY OF CALIFORNIA, IRVINE

VAN HOVEN, GERARD; *MAGNETIC STRUCTURES AND FIELD RECONNECTION: MECHANISMS OF SOLAR-TERRESTRIAL ACTIVITY (ATM-7911912 A02)*; 12 MONTHS $46,100

MOLINA, MARIO J; *CHARACTERIZATION OF ATMOSPHERICALLY IMPORTANT CHEMICAL REACTION MECHANISMS THROUGH INFRARED SPECTROSCOPY (ATM-8106136)*; 12 MONTHS $68,800

BOEHMER, HEINRICH, AND RYNN, NATHAN; *LABORATORY EXPERIMENTS ON THE ELECTRON ACCELERATION UNDER CONDITIONS SIMILAR TO THE AURORAL MAGNETOSPHERE (ATM-8110423)*; 12 MONTHS $69,800

UNIVERSITY OF CALIFORNIA, LOS ANGELES

YANAI, MICHIO; *DIAGNOSIS OF TROPICAL MOTION SYSTEMS (ATM-7681393 A04)*; 12 MONTHS $42,500

ARAKAWA, AKIO, AND SUAREZ, MAX J; *NUMERICAL MODELING OF THE GLOBAL ATMOSPHERE (29M-7801922 A04*)*; 12 MONTHS $204,400

CORONITI, FERDINAND V; *MAGNETOSPHERIC PLASMA PHYSICS (ATM-7819958 A02)*; 12 MONTHS $141,300

STENZEL, REINER L, AND GEKELMAN, WALTER; *MAGNETIC FIELD LINE RECONNECTION EXPERIMENTS (ATM-7921331 A02)*; 12 MONTHS $80,000

KIVELSON, MARGARET G, AND SOUTHWOOD, DAVID J; *A STUDY OF MAGNETOSPHERIC HYDROMAGNETICS (ATM-7923586 A01)*; 12 MONTHS $77,200

DE NIRO, MICHAEL J; *ANALYSIS OF BIOLOGICAL PROCESSES WHICH AFFECT CLIMATIC RECONSTRUCTION BASED ON STABLE ISOTOPE RATIOS OF TREE RINGS (ATM-7924591 A01)*; $5,200

DAWSON, JOHN M, AND KENNEL, CHARLES F; *NUMERICAL STUDIES OF MAGNETOHYDRODYNAMICS PROCESSES IN SPACE (ATM-7926499 A01)*; 12 MONTHS $106,800

FRIEDLANDER, SHELDON K, GIFFIN, CHARLES E, VILKER, VINCENT L, AND SINHA, MAHADEVA P; *PARTICLE ANALYSIS BY MASS SPECTROMETRY (CPE-8008686*)*; 12 MONTHS $30,000

MCPHERRON, ROBERT L; *CONTROL OF SUBSTORM AND STORM ACTIVITY BY THE SOLAR WIND AND INTERNAL MAGNETOSPHERIC PROCESSES (ATM-8020376)*; 12 MONTHS $59,500

BUSSE, FRIEDRICH H; *ATMOSPHERIC FLUID DYNAMICS (ATM-8022238)*; 12 MONTHS $44,405

THORNE, RICHARD M; *MAGNETOSPHERIC WAVE - PARTICLE PROCESSES (ATM-8110517)*; 12 MONTHS $36,200

UNIVERSITY OF CALIFORNIA, RIVERSIDE

PITTS, JAMES N; *THE ROLE OF TRACE ORGANICS AND RADICALS IN CHEMICAL CYCLES IN THE TROPOSPHERE (ATM-8001634 A01)*; 12 MONTHS $150,000

WHITE, R STEPHEN, AND BAUM, PETER J; *A LABORATORY SIMULATION OF MAGNETOSPHERE RECONNECTION AND DYNAMICS (ATM-8018315)*; 12 MONTHS $116,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

BARNETT, TIM P; *STUDY OF PREDICTABILITY AND VARIABILITY OF THE NORTHERN HEMISPHERE CLIMATE (ATM-7918906 A01)*; 12 MONTHS $210,300

WEISS, RAY F; *TRACE GASES IN THE OCEAN AND ATMOSPHERE (OCE-7920859 A01*)*; 12 MONTHS $18,300

KEELING, CHARLES D; *A STUDY OF THE ABUNDANCE OF CARBON DIOXIDE IN THE ATMOSPHERE AND ITS EXCHANGE WITH THE OCEANS (29M-7925965 A01)*; 12 MONTHS $39,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

WHIPPLE, ELDEN C; *A KINETIC THEORY APPROACH TO THE MAGNETOSPHERIC ELECTRIC FIELD (ATM-7911875 A01)*; 6 MONTHS $12,000

SUESS, HANS E; *FURTHER STUDIES OF RADIOCARBON RECORD IN TREE RINGS OF THE LAST 8,000 YEARS (ATM-7919866 A01*)*; 12 MONTHS $41,900

SOUTAR, ANDREW; *LATE QUATERNARY CLIMATIC CHANGE IN THE GULF OF CALIFORNIA: AN INVESTIGATION OF TERRESTRIAL AND MARINE EVIDENCE CONTAINED IN VARVED SEDIMENTS FROM THE GUAYMAS SLOPE (ATM-7919872 A01)*; 12 MONTHS $40,130

BOOKER, HENRY G; *THE FOURTH MOMENT PARTIAL DIFFERENTIAL EQUATION OF SCINTILLATION THEORY, WITH APPLICATIONS TO THE TROPOSPHERE, THE IONOSPHERE AND THE SOLAR WIND (ATM-8106147)*; 12 MONTHS $85,000

ALFVEN, HANNES, AND THOMPSON, WILLIAM B; *THE ELECTRIC CURRENT STRUCTURE OF THE MAGNETOSPHERE AND HELIOSPHERE (ATM-8109566)*; 12 MONTHS $65,000

CANFIELD, RICHARD C; *SOLAR FLARE RADIATIVE HYDRODYNAMICS (ATM-8112866)*; 12 MONTHS $55,000

COLORADO

COLORADO COLLEGE

HUEBERT, BARRY J; *ATMOSPHERIC ACIDITY: THE DRY DEPOSITION OF NITRIC ACID VAPOR (ATM-8108399)*; 12 MONTHS $56,094

COLORADO SCHOOL OF MINES

VOORHEES, KENT J; *CHARACTERIZATION OF THE INSOLUBLE ORGANIC FRACTION IN AIRBORNE PARTICULATES (ATM-8014191)*; 12 MONTHS $65,414

COLORADO STATE UNIVERSITY

BRIER, GLENN W, AND SIDDIQUI, MOHAMMED M; *SOME STATISTICAL AND PHYSICAL PROBLEMS IN STUDYING FEEDBACK PROCESSES IN THE ATMOSPHERE-OCEAN-EARTH SYSTEM (ATM-7911465 A01)*; 12 MONTHS $38,100

VONDER HAAR, THOMAS H, AND WACHTMANN, RONALD F; *SATELLITE STUDIES OF SEVERE CONVECTIVE STORMS (ATM-7918513 A01)*; 12 MONTHS $60,000

GRAY, WILLIAM M; *TROPICAL WEATHER SYSTEM STUDIES IN SUPPORT OF GATE, FGGE AND HURRICANE PROJECT ACTIVITIES (29M-7923591 A01*)*; 12 MONTHS $115,000

SCHUBERT, WAYNE H; *THE DYNAMICS OF THE TROPICAL TROPOSPHERE (ATM-8009799 A01)*; 12 MONTHS $106,700

COX, STEPHEN K; *MONEX BROAD SCALE RADIATION BUDGET COMPONENTS (ATM-8010691 A01)*; 12 MONTHS $148,000

MCKEE, THOMAS B; *STRUCTURE AND EVOLUTION OF TEMPERATURE INVERSIONS IN MOUNTAIN VALLEYS (ATM-8015309)*; 12 MONTHS $71,900

JOHNSON, RICHARD H; *TROPICAL CONVECTION AND THE ATMOSPHERIC BOUNDARY LAYER (ATM-8015347 A01)*; $8,500

JOHNSON, RICHARD H; *TROPICAL CONVECTION AND THE ATMOSPHERIC BOUNDARY LAYER (ATM-8015347 A02)*; 12 MONTHS $69,000

REITER, ELMAR R; *CAUSES AND EFFECTS OF ATMOSPHERIC INTERANNUAL VARIABILITY (ATM-8016867)*; 12 MONTHS $120,000

SPAIN, IAN L; *ACQUISITION OF X-RAY DIFFRACTION AND FLUORESCENCE SPECTROSCOPY EQUIPMENT (DMR-8019522*)*; 12 MONTHS $7,500

GRAY, WILLIAM M; *DEVELOPMENT OF GLOBAL RAWINSONDE DATA DECKS FOR TROPICAL CYCLONE ANALYSIS (ATM-8024674)*; 12 MONTHS $30,000

STEVENS, DUANE E; *DYNAMICS OF TROPICAL LARGE-SCALE DISTURBANCES (ATM-8107136)*; 24 MONTHS $94,700

GRANT, LEWIS O; *WEATHER MODIFICATION RELATED PHYSICAL STUDIES OF ROCKY MOUNTAIN OROGRAPHIC CLOUDS (ATM-8109590)*; 7 MONTHS $245,800

COTTON, WILLIAM R, AND TRIPOLI, GREGORY J; *NUMERICAL SIMULATION AND OBSERVATIONAL ANALYSIS OF MIDLATITUDE CONTINENTAL CUMULONIMBI AND MESOSCALE CONVECTIVE SYSTEMS (ATM-8113083)*; 12 MONTHS $211,200

PEARSON, RICHARD; *FAST RESPONSE OZONE MEASUREMENTS (ATM-8114575)*; 12 MONTHS $125,000

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

WHITE, ROBERT M; *OPERATION, MAINTENANCE, AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH AND NATIONAL SCIENTIFIC BALLOON FACILITY (ATM-7723757 A71*)*; $104,727

WHITE, ROBERT M; *CONTRACT FOR MANAGEMENT, OPERATIONS AND MAINTENANCE OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH (ATM-7723757 A74)*; 12 MONTHS $124,561

WHITE, ROBERT M; *OPERATION, MAINTENANCE AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH AND THE NATIONAL SCIENTIFIC BALLOON FACILITY (29M-7723757 A78*)*; $57,951

WHITE, ROBERT M; *CONTRACT FOR MANAGEMENT, OPERATION, AND MAINTENANCE OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH (ATM-7723757 A86*)*; 12 MONTHS $99,200

WHITE, ROBERT M; *CONTRACT FOR MANAGEMENT, OPERATION, AND MAINTENANCE OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH (ATM-7723757 A87*)*; $168,527

WHITE, ROBERT M; *OPERATION, MAINTENANCE AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH AND THE NATIONAL SCIENTIFIC BALLOON FACILITY (29M-7723757 A90*)*; $16,104

WHITE, ROBERT M; *CONTRACT FOR MANAGEMENT, OPERATION, AND MAINTENANCE OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH (ATM-7723757 A91*)*; $341,982

WHITE, ROBERT M; *OPERATION, MAINTENANCE AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH AND THE NATIONAL SCIENTIFIC BALLOON FACILITY (ATM-7723757 A94*)*; $191

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION. ENVIRONMENTAL RESEARCH LABORATORIES

BALSLEY, BENJAMIN B; *CONTINUED OPERATION AND FURTHER DEVELOPMENT OF THE POKER FLAT MST RADAR (ATM-8023126*)*; 12 MONTHS $271,000

UNIVERSITY OF COLORADO AT BOULDER

CASTLEMAN, A W; *HETEROGENEOUS CHEMISTRY: STUDIES OF THE FORMATION, STABILITY, AND REACTIONS OF SMALL CLUSTERS IMPORTANT IN GAS-TO-PARTICLE CONVERSION REACTIONS IN THE TROPOSPHERE (ATM-7913801 A02)*; 12 MONTHS $126,500

THOMAS, GARY E; *THEORETICAL STUDIES OF PLANETARY ATMOSPHERES (ATM-8007055 A01)*; 12 MONTHS $47,000

BARRY, ROGER G; *CRYOSPHERE-CLOUD INTERACTIONS NEAR THE SNOW/ICE LIMIT: SENSITIVITY TESTING OF MODEL PARAMETERIZATIONS (ATM-8018898)*; 12 MONTHS $44,300

BLUMEN, WILLIAM, AND HART, JOHN E; *STUDIES OF FLOW OVER OROGRAPHY IN ASSOCIATION WITH ALPEX (ATM-8019958)*; 12 MONTHS $29,500

BLUMEN, WILLIAM; *THEORETICAL STUDIES OF ATMOSPHERIC ENERGETICS AND FRONTAL DYNAMICS (ATM-8020138)*; 24 MONTHS $80,400

GOLDMAN, MARTIN V, AND TOOMRE, JURI; *PLASMA AND FLUID TURBULENCE IN THE SUN AND SOLAR WIND (ATM-8020436)*; 12 MONTHS $60,000

KRAUS, ERIC B; *THE OCEANIC AND ATMOSPHERIC BOUNDARY LAYER IN THE EASTERN REGION OF THE SUBTROPICAL OCEANS (ATM-8023334)*; 12 MONTHS $49,200

WARREN, STEPHEN G, AND WISCOMBE, WARREN J; *SOLAR AND INFRARED RADIATION MODELING FOR ICE-COVERED OCEANS (ATM-8024641)*; 12 MONTHS $43,000

SIEVERS, ROBERT E; *MEASUREMENT AND CHEMISTRY OF ORGANIC CONSTITUENTS IN PRISTINE AND POLLUTED AIR (ATM-8108675)*; 12 MONTHS $85,298

UNIVERSITY OF DENVER

MURCRAY, DAVID G; *LABORATORY INFRARED SPECTRAL MEASUREMENTS OF MOLECULES OF INTEREST IN ATMOSPHERIC CHEMISTRY (ATM-7914165 A01)*; 12 MONTHS $54,800

VAN ZYL, BERT, AMME, ROBERT C, AND NEUMANN, HERSCHEL; *CROSS SECTION MEASUREMENTS OF IMPORTANCE FOR ANALYSIS OF THE PROTON AURORA (ATM-7918242 A01)*; 12 MONTHS $87,500

PATEL, V L; *STUDY OF GEOPHYSICAL PLASMA WAVES (45-600 S) BY USING IMS MAGNETOMETER NETWORKS (ATM-7923582 A01)*; 12 MONTHS $54,800

GOLDMAN, AARON; *NEW ATLAS OF HIGH RESOLUTION INFRARED SOLAR SPECTRA (ATM-7927132 A01)*; 24 MONTHS $204,479

COAKLEY, STELLA M; *RELATION BETWEEN CLIMATIC VARIATION AND PLANT DISEASE EPIDEMICS (ATM-8017604)*; 18 MONTHS $99,660

MURCRAY, DAVID G; *MEASUREMENTS OF VARIOUS TRACE CONSTITUENTS IN THE LOWER STRATOSPHERE USING INFRARED TECHNIQUES (ATM-8110534)*; 12 MONTHS $148,005

BARCUS, JAMES R; *RADIATION EVENTS AND ELECTRICAL RESPONSE IN THE STRATOSPHERE FOR THE POLAR TRANSITION REGION 7 < L < 20 (ATM-8111113)*; 12 MONTHS $98,500

CONNECTICUT

CENTER FOR THE ENVIRONMENT AND MAN INC

PANDOLFO, JOSEPH P, ROBINSON, GEORGE D, AND ATWATER, MARSHALL A; *EXAMINATION OF GATE RADIATION AND CLOUD DATA AND THEIR RELEVANCE TO RADIATIVE PARAMETERIZATIONS IN PRIMITIVE EQUATION MODELS (ATM-7707504 A03)*; 6 MONTHS $39,900

JACOBS, CLIFFORD A; *NUMERICAL EXPERIMENTS WITH ALTERNATIVE FORMULATION OF OCEANIC VERTICAL EDDY EXCHANGE COEFFICIENTS USING GATE DATA (ATM-7835903 A02)*; 12 MONTHS $105,664

SUTERA, ALFONSO; *CONTINUING STUDIES ON STRUCTURAL ANALYSIS OF SIMPLE, NON-LINEAR STOCHASTICALLY PERTURBED CLIMATE MODELS (ATM-8022869*)*; 12 MONTHS $66,000

HARTFORD GRADUATE CENTER

PANDOLFO, JOSEPH P, AND BROWN, PHILIP S; *USE OF GATE DATA IN NESTED-GRID, PRIMITIVE EQUATION MODELS (ATM-7824273 A02)*; 12 MONTHS $133,345

HERZEGH, PAUL H; *STUDIES OF THE MESOSCALE ORGANIZATION AND MICROPHYSICAL STRUCTURE OF MONSOON CLOUDS AND PRECIPITATION (ATM-8102976)*; 12 MONTHS $85,800

ROBINSON, GEORGE D, PANDOLFO, JOSEPH P, BROWN, PHILIP S, AND SUTERA, ALFONSO; *STOCHASTIC PERTURBATION ANALYSIS OF PLANETARY SCALE ATMOSPHERIC FLOW (ATM-8106034)*; 12 MONTHS $100,500

ROBINSON, GEORGE D, BROWN, PHILIP S, AND SUTERA, ALFONSO; *KINETIC ENERGY SPECTRUM OF THE NORTHERN HEMISPHERE WESTERLIES (ATM-8111575)*; 12 MONTHS $59,800

YALE UNIVERSITY

SALTZMAN, BARRY; *MODELLING THE TIME-DEPENDENT EVOLUTION OF CLIMATE (ATM-7925013 A01)*; 12 MONTHS $89,000

SMITH, RONALD B; *THE DYNAMICS OF AIRFLOW AROUND THE ALPS: OBSERVATION AND THEORY (ATM-8023348)*; 12 MONTHS $96,000

DISTRICT OF COLUMBIA

CARNEGIE INSTITUTION OF WASHINGTON

HOWARD, ROBERT; *A SEARCH FOR VARIATIONS IN THE SOLAR DIAMETER AND ROTATION RATE SINCE 1915 (ATM-8021249*)*; 24 MONTHS $70,200

DEPARTMENT OF AIR FORCE

CRESS, TED S; *MITHRAS MAGNETOSPHERE-IONOSPHERE-THERMOSPHERE RADAR STUDIES USING THREE HIGH-LATITUDE INCOHERENT SCATTER STATIONS (ATM-8117793)*; 12 MONTHS $50,000

DEPARTMENT OF TRANSPORTATION

SUNDARARAMAN, NARASIMHA; *SUPPORT FOR THE INTERAGENCY COORDINATOR FOR THE MIDDLE ATMOSPHERIC PROGRAM (ICMAP) (ATM-8117791)*; 12 MONTHS $25,000

HOWARD UNIVERSITY

DEY, BALARAM D; *HIMALAYAN OR EURASIAN SNOW COVER AND THE INDIAN SUMMER MONSOON ACTIVITY (ATM-8109177)*; 18 MONTHS $95,200

NATIONAL ACADEMY OF SCIENCES

HART, PEMBROKE J; *SUPPORT OF THE GEOPHYSICS RESEARCH BOARD (GRB) AND THE COMMITTEE ON SOLAR-TERRESTRIAL RESEARCH (CSTR) (02M-7914131 A03*)*; 12 MONTHS $110,000

DOW, RICHARD Y; *SUPPORT OF THE XXTH GENERAL ASSEMBLY OF THE INTERNATIONAL UNION OF RADIO SCIENCE (06T-8020514*)*; 18 MONTHS $4,000

PERRY, JOHN S; *SUPPORT OF THE COMMITTEE ON ATMOSPHERIC SCIENCES (29M-8024257*)*; 12 MONTHS $40,650

PERRY, JOHN S; *SUPPORT FOR THE U.S. COMMITTEE FOR THE GLOBAL ATMOSPHERIC RESEARCH PROGRAM (GARP) (29M-8025329)*; 12 MONTHS $29,000

PERRY, JOHN S; *SUPPORT FOR THE U.S. COMMITTEE FOR THE GLOBAL ATMOSPHERIC RESEARCH PROGRAM (29M-8025329 A01)*; $50,000

DOW, RICHARD Y; *TRAVEL SUPPORT OF U.S. PARTICIPATION IN THE XX GENERAL ASSEMBLY OF URSI (AST-8107919*)*; 12 MONTHS $10,000

FLORIDA

FLORIDA STATE UNIVERSITY

STUART, DAVID W; *TEMPORAL AND SPATIAL FLUCTUATIONS OF THE ATMOSPHERIC MARINE BOUNDARY LAYER ALONG THE PERUVIAN COAST (ATM-7810814 A04)*; $15,716

KRISHNAMURTI, T N; *NUMERICAL WEATHER PREDICTION (ATM-7819363 A02)*; 12 MONTHS $123,600

KRISHNAMURTI, T N; *NUMERICAL WEATHER PREDICTION (ATM-7819363 A03)*; 12 MONTHS $200,000

O'BRIEN, JAMES J; *EQUATORIAL OCEAN-CLIMATE AIR-SEA INTERACTIONS (ATM-7920485 A01)*; 12 MONTHS $53,000

ANDREAE, MEINRAT O, AND AMMONS, MICHAEL J; *THE FLUX OF REDUCED SULFUR COMPOUNDS FROM THE OCEANS TO THE ATMOSPHERE (ATM-8017574)*; 12 MONTHS $57,107

STEPHENS, JESSE J; *FIELD MEASUREMENTS OF MESOSCALE WEATHER SYSTEMS DATA ARCHIVAL AND DISTRIBUTION (ATM-8106826)*; 24 MONTHS $52,500

BARCILON, ALBERT I, AND FITZJARRALD, DANIEL E; *THE ROLE OF MOISTURE ON THE STRUCTURE OF MOUNTAIN WAVES: OBSERVATIONS AND THEORY (ATM-8111454)*; 12 MONTHS $40,700

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION-ATLANTIC OCEANOGRAPHIC & METEOROLOGICAL LAB

BURPEE, ROBERT W; *COMPOSITE STUDIES OF SYNOPTIC-SCALE WAVES IN WESTERN AFRICA AND THE CARIBBEAN DURING GATE (ATM-8115514)*; 6 MONTHS $9,580

UNIVERSITY OF FLORIDA-ENGINEERING & INDUSTRIAL EXPERIMENT STATION

UMAN, MARTIN A; *LIGHTNING RETURN STROKE PROPERTIES FROM ELECTRIC AND MAGNETIC FIELD MEASUREMENTS (ATM-7902637 A01)*; 12 MONTHS $137,200

BEASLEY, WILLIAM H; *LIGHTNING AND THUNDERSTORMS - FURTHER TRIP STUDIES (ATM-8109013)*; 12 MONTHS $43,800

UNIVERSITY OF FLORIDA

TAYLOR, KARL E; *STATISTICAL-DYNAMICAL CLIMATE MODEL: SEASONAL STUDIES (ATM-8105024)*; 12 MONTHS $31,700

UNIVERSITY OF MIAMI-SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

PROSPERO, JOSEPH M; *AN AEROSOL PROGRAM IN THE GLOBAL WEATHER EXPERIMENT (GWEAP) - DATA ANALYSIS (GWM-8016127 A01)*; 12 MONTHS $47,600

BLECK, RAINER; *NUMERICAL MODELING ACTIVITIES RELATED TO THE ALPINE EXPERIMENT (ALPEX) (ATM-8022264)*; 12 MONTHS $59,700

BOUDRA, DOUGLAS B; *STUDIES ON THE EARLY WINTER MESO-TO-SYNOPTIC SCALE EFFECTS OF THE GREAT LAKES (ATM-8022880)*; 12 MONTHS $24,000

SCHOTT, FRIEDRICH; *ANALYSIS OF FGGE 1979 SOMALI CURRENT EXPERIMENT (ATM-8023463)*; 12 MONTHS $153,000

LHERMITTE, ROGER M; *OBSERVATION & STUDY OF CONVECTIVE STORMS (ATM-8111719)*; 12 MONTHS $116,800

GEORGIA

GEORGIA INSTITUTE OF TECHNOLGY MAIN CAMPUS

ROPER, ROBERT G; *CONTINUOUS OPERATION OF THE GEORGIA TECH METEOR WIND RADAR, 1981-1982 (ATM-7811741 A01)*; 12 MONTHS $45,000

ROPER, ROBERT G; *CONTINUOUS OPERATION OF THE FRENCH METEOR RADAR ON PUERTO RICO, 1980 - 1982 (ATM-8012705)*; 12 MONTHS $54,000

ECHARD, JAMES D; *COHERENT POLARIZATION-DIVERSITY RADAR MEASUREMENTS OF CLOUDS AND PRECIPITATION (ATM-8018388*)*; 18 MONTHS $71,600

RAVISHANKARA, A R, AND WINE, PAUL H; *A KINETICS INVESTIGATION OF SEVERAL KEY TROPOSPHERIC CHEMICAL REACTIONS (ATM-8019040)*; 24 MONTHS $122,766

EINAUDI, FRANCO; *A STUDY OF INTERNAL GRAVITY WAVES IN THE PO VALLEY (INT-8105101*)*; 12 MONTHS $20,440

ILLINOIS

IIT RESEARCH INSTITUTE

SNELSON, ALAN; *CHARACTERIZATION OF ALKYL RADICAL 02 PRIMARY REACTION PRODUCTS BY MATRIX ISOLATION SPECTROSCOPY (ATM-8107294)*; 12 MONTHS $56,000

NORTHWESTERN UNIVERSITY

BIRCHFIELD, G EDWARD; *A NUMERICAL CLIMATE MODEL STUDY INCLUDING THE PHYSICS OF CONTINENTAL ICE SHEETS AND THE DEEP OCEAN (ATM-8111138)*; 24 MONTHS $141,849

UNIVERSITY OF CHICAGO

FUJITA, THEODORE; *RESEARCH AND PUBLICATION OF ' DOWNBURST THUNDERSTORMS ' (ATM-7921260 A01)*; 12 MONTHS $50,000

KUO, HSIAO L; *CLIMATE AND THERMAL CIRCULATION (ATM-7922048 A01)*; 12 MONTHS $97,000

SIMPSON, JOHN A; *SOLAR FLARE AND SOLAR INTERPLANETARY PHENOMENA INVESTIGATED WITH HIGH ENERGY CHARGED PARTICLES (ATM-7924593 A01)*; 12 MONTHS $207,400

BRAHAM, ROSCOE R; *LAKE MICHIGAN SNOW STORMS (ATM-8015337 A01)*; 12 MONTHS $276,300

BANNON, PETER R; *MONSOON DYNAMICS (ATM-8026790)*; 12 MONTHS $54,700

BANNON, PETER R; *MONSOON DYNAMICS AND LEE CYCLOGENESIS (ATM-8026790 A01)*; $29,600

SRIVASTAVA, RAMESH C; *STUDIES OF MESOSCALE ORGANIZED CONVECTION DURING CCOPE (ATM-8109556*)*; 15 MONTHS $204,100

UNIVERSITY OF ILLINOIS AT URBANA

BOWHILL, SIDNEY A; *INTERNATIONAL SYMPOSIUM ON MIDDLE ATMOSPHERE DYNAMICS AND TRANSPORT (ATM-7831765 A02)*; $5,000

BEARD, KENNETH V, AND OCHS, HARRY T; *MICROPHYSICS OF PRECIPITATION FORMATION (ATM-7914170 A01)*; 12 MONTHS $83,000

TRENBERTH, KEVIN E; *INTERANNUAL VARIABILITY OF THE ATMOSPHERIC CIRCULATION IN THE SOUTHERN HEMISPHERE (ATM-7916485 A01)*; 12 MONTHS $47,100

JAMESON, ARTHUR R; *A DUAL-WAVELENGTH RADAR STUDY OF RAIN AND HAIL IN THUNDERSTORMS (ATM-7918365 A01)*; 12 MONTHS $74,200

SECHRIST, CHALMERS F, AND GARDNER, CHESTER S; *THEORETICAL AND LIDAR STUDIES OF ATMOSPHERIC SODIUM LAYER DYNAMICS (ATM-7920726 A01*)*; 12 MONTHS $77,300

LIU, CHAO H, AND YEH, K C; *STUDIES OF IONOSPHERIC SCINTILLATION PROBLEMS (ATM-8007039 A01)*; 12 MONTHS $6,000

LIU, CHAO H, AND YEH, K C; *STUDIES OF IONOSPHERIC SCINTILLATION PROBLEMS (ATM-8007039 A02)*; $55,000

OGURA, YOSHIMITS, AND SOONG, SU-TZAI; *INTERACTION BETWEEN CUMULUS AND THE LARGE-SCALE FIELDS IN TROPICS (ATM-8013719 A01)*; 12 MONTHS $117,500

GATZ, DONALD F, AND STENSLAND, GARY J; *MEASUREMENT OF CRUSTAL AEROSOL COMPOSITION (ATM-8014893)*; 12 MONTHS $117,998

MAK, MAN-KIN; *RESEARCH IN THE DYNAMICS OF THE MONSOONAL CIRCULATION (ATM-8019493)*; 12 MONTHS $43,800

BOWHILL, SIDNEY A; *STUDIES OF IONOSPHERIC DYNAMICS BY INCOHERENT SCATTER (ATM-8019563)*; 12 MONTHS $50,000

SASAMORI, TAKASHI; *THE STABILITY OF FORCED PLANETARY WAVES IN THE ATMOSPHERE (ATM-8020738)*; 12 MONTHS $74,500

BEARD, KENNETH V, AND OCHS, HARRY T; *THE PHORETIC SCAVENGING OF AEROSOL IN CLOUDS (ATM-8023688)*; 12 MONTHS $62,300

LAMB, PETER J; *DIAGNOSTIC STUDIES OF GROWING SEASON RAINFALL FLUCTUATIONS IN CENTRAL NORTH AMERICA (ATM-8100158)*; 12 MONTHS $70,000

YEH, K C, AND LIU, CHAO H; *STUDIES OF ACOUSTIC-GRAVITY WAVES IN THE ATMOSPHERE (ATM-8106055*)*; 12 MONTHS $70,000

CHANGNON, STANLEY A, AND HSU, CHIN-FEI; *DEVELOP AND TEST TECHNIQUES TO EVALUATE WEATHER MODIFICATION (ATM-8107037)*; 12 MONTHS $96,400

INDIANA

PURDUE UNIVERSITY

SMITH, PHILLIP J; *ENERGETICS ANALYSES OF REGIONAL NUMERICAL PREDICTION MODELS (ATM-7910021 A01)*; 12 MONTHS $53,100

AGEE, ERNEST M; *MICROSCALE-MESOSCALE CELLULAR CONVECTION (ATM-7927149 A01)*; 12 MONTHS $68,100

SNOW, JOHN T; *A LABORATORY STUDY OF TORNADO-LIKE VORTEX DYNAMICS (ATM-8003403 A01)*; 12 MONTHS $63,800

VINCENT, DAYTON G; *IMPACT OF DEEP CUMULUS CONVECTION ON SYNOPTIC-SCALE CIRCULATIONS (ATM-8016169)*; 18 MONTHS $17,300

DALE, ROBERT F; *THE USE OF WEATHER AND CLIMATE INFORMATION IN CORN PRODUCTION (ATM-8021075)*; 12 MONTHS $67,700

VINCENT, DAYTON G; *CIRCULATION FEATURES DURING GATE: LARGE-SCALE MEAN STATE AND TEMPORAL VARIATIONS FOR PHASES I, II AND III (ATM-8021081)*; 12 MONTHS $33,000

IOWA

DRAKE UNIVERSITY

SKADRON, GEORGE; *ENERGETIC IONS UPSTREAM FROM THE EARTH'S BOW SHOCK (ATM-8111756)*; 12 MONTHS $15,000

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

STANFORD, JOHN L; *GLOBAL ATMOSPHERIC MOTION STUDIES UTILIZING SATELLITE RADIANCE DATA (ATM-7911878 A01)*; 12 MONTHS $72,000

TAKLE, EUGENE S; *DEVELOPMENT, TESTING AND APPLICATION OF A FINITE-ELEMENT ATMOSPHERIC BOUNDARY-LAYER MODEL (ATM-7923354 A01)*; $66,700

CHEN, T.C.; *NONLINEAR CASCADE PROCESSES IN THE BAROCLINIC AND BAROTROPIC FLOW OF THE ATMOSPHERE (ATM-7924568 A01)*; 12 MONTHS $33,900

UNIVERSITY OF IOWA

NICHOLSON, DWIGHT R; *INVESTIGATION OF MICROSCOPIC AND MACROSCOPIC PLASMA PROPERTIES WITH APPLICATION TO SPACE PLASMAS (ATM-7822487 A02)*; 12 MONTHS $57,900

NICHOLSON, DWIGHT R, AND PAYNE, GERALD L; *SOLITONS AND IONOSPHERIC MODIFICATION (ATM-7918778 A01)*; 12 MONTHS $77,700

MAINE

UNIVERSITY OF MAINE, ORONO

SMITH, DAVID C, AND BORNS, HAROLD W; *RECONSTRUCTION OF HISTORIC CLIMATES OF NORTHEASTERN U.S. (ATM-7908415 A01)*; 12 MONTHS $86,300

MARYLAND

APPLIED PHYSICS LABORATORY-LAUREL

POTEMRA, THOMAS A; *STUDIES OF AURORAL FIELD-ALIGNED CURRENTS WITH THE TRIAD SATELLITE (ATM-7915238 A02)*; 12 MONTHS $106,700

POTEMRA, THOMAS A; *PARTIAL SUPPORT OF A MINI-COMPUTER SYSTEM FOR CORRELATIVE SOLAR-TERRESTRIAL STUDIES (ATM-8017928)*; 12 MONTHS $67,100

JOHNS HOPKINS UNIVERSITY

CORRSIN, STANLEY; *TRANSPORT OF HEAT AND MASS IN TURBULENT FLOWS (ATM-7704901 A04)*; 12 MONTHS $99,700

PHILLIPS, O M; *GEOPHYSICAL FLUID DYNAMICS (ATM-7922063 A01)*; 12 MONTHS $68,900

MENG, CHING-I; *A STUDY OF MAGNETOSPHERIC DYNAMICS IN THE POST INTERNATIONAL MAGNETOSPHERIC STUDY PERIOD (ATM-7933240 A01)*; 12 MONTHS $80,000

KRIMIGIS, S M, LUI, ANTHONY, AND ARMSTRONG, THOMAS P; *STUDIES OF SOLAR AND MAGNETOSPHERIC PARTICLES (ATM-7925987 A01)*; 12 MONTHS $114,500

GREENWALD, RAYMOND A; *A STUDY OF ELECTRICAL COUPLING BETWEEN THE MAGNETOSPHERE AND IONOSPHERE (ATM-8003300 A02)*; 12 MONTHS $82,600

GREENWALD, R A; *AN INVESTIGATION INTO THE NATURE OF HIGH LATITUDE F-REGION ELECTRON DENSITY IRREGULARITIES (ATM-8109549)*; 12 MONTHS $118,000

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

FLEMING, REX J; *ARCTIC BASIN BUOY PROGRAM (ATM-8007343 A01*)*; 12 MONTHS $66,700

EPSTEIN, EDWARD S; *SUPPORT OF THE CLIMATE RESEARCH BOARD (ATM-8014926)*; 12 MONTHS $25,000

ADAMS, GENE W; *HF RADAR FACILITY OPERATION AT CLEARY (ATM-8023143)*; 13 MONTHS $112,000

UNIVERSITY OF MARYLAND UNIVERSITY COLLEGE

ROBOCK, ALAN; *CLIMATE CHANGE CAUSED BY NATURAL VARIATION AND VOLCANIC DUST AS SIMULATED BY A SEASONAL MODEL (ATM-7918815 A01)*; 12 MONTHS $44,700

UNIVERSITY OF MARYLAND, COLLEGE PARK

BAER, FERDINAND; *STUDIES OF ATMOSPHERIC FLOW AND ITS PREDICTION (29M-7817439 A03)*; 12 MONTHS $48,000

ROBOCK, ALAN; *CLIMATE CHANGE CAUSED BY NATURAL VARIATION AND VOLCANIC DUST AS SIMULATED BY A SEASONAL MODEL (ATM-7918815 A02)*; $689

LANDSBERG, HELMUT E; *CONTRIBUTIONS TO THE RECONSTRUCTION OF THE CLIMATE OF THE PAST THREE CENTURIES (ATM-8018510)*; 12 MONTHS $36,525

VERNEKAR, ANANDU D; *A THEORY OF EARTH'S MACROCLIMATE AND ITS VARIATIONS (ATM-8024881)*; 12 MONTHS $82,400

KUNDU, MUKUL R; *HIGH RESOLUTION STUDIES OF SOLAR ACTIVE REGIONS AND FLARES AT CENTIMETER AND MILLIMETER WAVELENGTHS (ATM-8103089)*; $78,400

BENESCH, WILLIAM; *LABORATORY INVESTIGATION OF TWO IMPORTANT REGIONS OF THE ATMOSPHERIC SPECTRUM (ATM-8111061)*; 12 MONTHS $59,400

MASSACHUSETTS

ATMOSPHERIC AND ENVIRONMENTAL RESEARCH INC

FOUKAL, PETER V; *A STUDY OF THE INFLUENCE OF MAGNETIC FIELDS ON SOLAR LUMINOSITY (ATM-8004346 A01)*; 12 MONTHS $84,300

FOUKAL, PETER V, AND ROSEN, WARREN; *A STUDY OF TIME VARIATIONS IN PHOTOSPHERIC LIMB-DARKENING AS A DIAGNOSTIC OF VARIATIONS IN SOLAR LUMINOSITY (ATM-8119339)*; 12 MONTHS $24,700

BOSTON COLLEGE

EATHER, ROBERT H; *ALL-SKY MONOCHROMATIC OBSERVATIONS OF AIRGLOW EMISSIONS FROM ARECIBO (ATM-7822601 A02)*; 12 MONTHS $20,100

EATHER, ROBERT H; *MERIDIAN PHOTOMETER CHAIN (ATM-8015340)*; 12 MONTHS $36,300

FEYNMAN, JOAN; *INTERMEDIATE TIME SCALE VARIATIONS OF SOLAR-TERRESTRIAL PHENOMENA (ATM-8111753)*; 12 MONTHS $60,000

CLARK UNIVERSITY

WARRICK, RICHARD A; *THE EFFECTS OF CLIMATE FLUCTUATIONS ON HUMAN POPULATIONS (ATM-8006635 A01)*; $3,500

KATES, ROBERT W; *IMPROVING THE SCIENCE OF IMPACT STUDY (ATM-8018232)*; 18 MONTHS $109,600

NICHOLSON, SHARON E; *RAINFALL FLUCTUATIONS IN SOUTHERN AFRICA: INTER-HEMISPHERIC TELECONNECTIONS (ATM-8019009)*; 18 MONTHS $38,000

ENVIRONMENTAL RESEARCH & TECHNOLOGY INC

ROSEN, RICHARD D; *WATER VAPOR AND THE GENERAL CIRCULATION DERIVED FROM FGGE AND LONGER TERM UPPER AIR DATA (29M-8018568)*; 12 MONTHS $72,500

HARVARD UNIVERSITY

LINDZEN, RICHARD S; *RESEARCH IN DYNAMIC METEOROLOGY (ATM-7833330 A02)*; 12 MONTHS $97,100

ANDERSON, JAMES G; *LABORATORY STUDIES OF TROPOSPHERIC AND STRATOSPHERIC CHEMISTRY: GAS PHASE KINETICS OF THE HS RADICAL (ATM-7926033 A01)*; 12 MONTHS $79,310

PARKINSON, W H; *PHOTOABSORPTION CROSS SECTIONS OF ATMOSPHERIC MOLECULES MEASURED AT HIGH RESOLUTION IN THE VACUUM ULTRAVIOLET REGION (ATM-8023900)*; 12 MONTHS $93,700

HARVARD UNIVERSITY-OBSERVATORY

MAXWELL, ALAN; *SOLAR RADIO PROGRAMS AT THE HARVARD RADIO ASTRONOMY STATION (ATM-8007024 A01)*; 12 MONTHS $30,000

DALGARNO, ALEXANDER; *BASIC IONIZATION, AIRGLOW AND AURORAL PROCESSES (ATM-8025637)*; 12 MONTHS $55,900

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

EVANS, JOHN V, AND WAND, RONALD H; *SUPPORT FOR THE MILLSTONE HILL INCOHERENT SCATTER RADAR DURING SOLAR MAXIMUM CONDITIONS (ATM-7909189 A02)*; 12 MONTHS $349,700

LORENZ, EDWARD N; *STUDY OF THE MATHEMATICAL BASIS OF CLIMATE (ATM-7910389 A01)*; 12 MONTHS $98,300

NEWELL, REGINALD E; *DIAGNOSTIC AND REAL-TIME STUDIES OF CLIMATIC FLUCTUATIONS (ATM-7918016 A01)*; 12 MONTHS $166,700

PASSARELLI, RICHARD E, AND SANDERS, FREDERICK; *DOPPLER RADAR STUDY OF NORTHEAST WINTER STORMS (ATM-8013711 A01)*; 12 MONTHS $190,800

ORSZAG, STEVEN A; *NUMERICAL METHODS FOR ATMOSPHERIC FLOW PROBLEMS (ATM-8017984)*; 12 MONTHS $48,400

ORSZAG, STEVEN A; *NUMERICAL METHODS FOR ATMOSPHERIC FLOW PROBLEMS (ATM-8017984 A01)*; 12 MONTHS $49,400

SANDERS, FREDERICK, AND LORENZ, EDWARD N; *CUMULUS CONVECTION AND CONVECTIVE SYSTEMS (ATM-8019301*)*; 12 MONTHS $115,500

MOLLO-CHRISTENS, ERIK L; *AIR-SEA INTERACTION WITH SPECIAL ATTENTION ON NON-LINEAR COUPLINGS AND PROCESSES IN THE AIR AND WATER BOUNDARY LAYERS (ATM-8021281)*; 12 MONTHS $95,500

TUNG, KA-KIT; *A THEORETICAL INVESTIGATION OF THE INITIATION OF BLOCKING (ATM-8023523*)*; 12 MONTHS $61,100

PIERREHUMBERT, RAYMOND T; *THE INFLUENCE OF MOUNTAINS ON FRONTAL DEVELOPMENT AND MESOSCALE-SYNOPTIC SCALE INTERACTIONS IN LEE CYCLOGENESIS (ATM-8115394)*; 12 MONTHS $50,700

SCIENTIFIC SYSTEMS INC

TOLDALAGI, PAUL M, LEDSHAM, WILLIAM H, AND WASHBURN, ROBERT B; *APPLICATION OF OBSERVER THEORY TO INITIALIZATION AND 4-D ASSIMILATION IN NUMERICAL WEATHER PREDICTION SYSTEMS (ATM-8023751)*; 12 MONTHS $45,400

UNIVERSITY OF MASSACHUSETTS, AMHERST

BRADLEY, RAYMOND S; *CLIMATIC FLUCTUATIONS OF NORTHERNMOST NORTH AMERICA (ATM-8017745*)*; 12 MONTHS $41,000

MICHIGAN

UNIVERSITY OF MICHIGAN-ANN ARBOR

WARD, JOHN F, AND WANG, CHARLES C; *OH SPECTROSCOPY AND APPLICATION OF SPECTROSCOPIC TECHNIQUES FOR OH DETECTION (ATM-7916854 A01)*; 12 MONTHS $5,000

SAMIR, URI; *THE INTERACTION BETWEEN A SPACECRAFT AND ITS ENVIRONMENTAL SPACEPLASMA (ATM-7926259)*; 18 MONTHS $30,000

MERIWETHER, JOHN W, AND HAYES, PAUL B; *EXPERIMENTAL AND THEORETICAL STUDIES OF THE EARTH'S UPPER ATMOSPHERE (ATM-8005359 A01*)*; 12 MONTHS $150,600

WALKER, JAMES C G; *DYNAMICS OF THE TROPICAL UPPER ATMOSPHERE AND IONOSPHERE (ATM-8015316)*; 12 MONTHS $46,200

FONTHEIM, ERNEST G; *EFFECTS OF BEAM-PLASMA INTERACTIONS IN THE HIGH LATITUDE IONOSPHERE (ATM-8015810*)*; 12 MONTHS $50,000

SHYN, TONG W; *MEASUREMENTS OF ELECTRON IMPACT SCATTERING CROSS SECTIONS OF ATMOSPHERIC GASES (ATM-8105021)*; 18 MONTHS $22,700

ATREYA, SUSHIL K, MERIWETHER, JOHN W, AND DONAHUE, THOMAS M; *CORRELATIVE STUDIES OF EXOSPHERIC DYNAMICS (ATM-8109257)*; 12 MONTHS $45,000

NAGY, ANDREW F; *EXPERIMENTAL AND THEORETICAL STUDIES OF THE IONOSPHERE (ATM-8109563)*; 12 MONTHS $65,500

WAYNE STATE UNIVERSITY

WANG, CHARLES C, AND BAKALYAR, DONOVAN; *FLUORESCENCE MEASUREMENTS OF OH NEAR NIWOT RIDGE, COLORADO DURING THE SUMMER, 1981 (ATM-8112719)*; 6 MONTHS $10,000

MINNESOTA

CONTROL DATA CORPORATION

BELMONT, ARTHUR D; *ANALYSIS OF UPPER MESOSPHERIC DATA FOR LONG-PERIOD VARIATIONS (ATM-8013163)*; 12 MONTHS $54,000

UNIVERSITY OF MINNESOTA

WRIGHT, HERBERT E, AND CUSHING, EDWARD J; *COHMAP - CLIMATES OF THE HOLOCENE: MAPPING BASED ON POLLEN DATA (ATM-8112840)*; 12 MONTHS $69,300

MISSOURI

ST LOUIS UNIVERSITY

RAO, GANDIKOTA V; *METEOROLOGY OVER INDIAN OCEAN AND ARABIAN SEA (ATM-8112700)*; 12 MONTHS $49,100

UNIVERSITY OF MISSOURI, COLUMBIA

KUNG, ERNEST C; *STUDIES OF THE ATMOSPHERIC ENERGETICS AND REGIONAL PREDICTION PROBLEMS (29M-8108216)*; 12 MONTHS $97,800

UNIVERSITY OF MISSOURI, ROLLA

KASSNER, JAMES L, SUCK, SUNG H, HAGEN, DONALD E, AND SPARLIN, DON M; *EXPERIMENTAL AND THEORETICAL STUDIES OF NUCLEATION PHENOMENA (ATM-7919480 A01*)*; 12 MONTHS $85,000

HALE, BARBARA N, AND WARD, RICHARD C; *MOLECULAR MODELS APPLIED TO HETEROGENEOUS NUCLEATION OF ICE: STUDIES OF WATER ON SILVER IODIDE AND OTHER ICE NUCLEATING SUBSTRATES (ATM-8015790)*; 12 MONTHS $64,600

LEVENSON, LEONARD L; *ACQUISITION OF SCANNING ELECTRON MICROSCOPE EQUIPMENT (DMR-8015800*)*; 12 MONTHS $9,000

PLUMMER, PATRICIA L; *THEORETICAL STUDIES OF MOLECULAR PROCESSES AND REACTION INTERMEDIATES IN THE ATMOSPHERIC SULFUR OXIDATION CYCLE (ATM-8019752)*; 12 MONTHS $65,942

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN-AGRICULTURAL EXPERIMENT STATION

WEISS, ALBERT; *COMPUTER TECHNIQUES AND METEOROLOGICAL DATA APPLIED TO PROBLEMS OF AGRICULTURE AND FORESTRY: A WORKSHOP (ATM-8020422)*; 12 MONTHS $38,300

UNIVERSITY OF NEBRASKA AT LINCOLN

ROSENBERG, NORMAN J, AND VERMA, SHASHI B; *MICROCLIMATE - PLANT ARCHITECTURE INTERACTING EFFECTS ON PHOTOSYNTHESIS, EVAPOTRANSPIRATION AND WATER USE EFFICIENCY (ATM-7901017 A02)*; 12 MONTHS $98,900

SAMSON, JAMES A; *ULTRAVIOLET AND X-RAY BOMBARDMENT OF PLANETARY ATMOSPHERES (ATM-8022436)*; 12 MONTHS $35,200

WILHITE, DONALD A, ROSENBERG, NORMAN J, AND GLANTZ, MICHAEL H; *GOVERNMENTAL RESPONSE TO THE MID-1970S DROUGHT: A CASESTUDY OF THREE GREAT PLAINS STATES (ATM-8108447)*; 18 MONTHS $88,600

NEVADA

DESERT RESEARCH INSTITUTE

HALLETT, JOHN; *FIELD AND LABORATORY STUDIES OF PRIMARY AND SECONDARY ICE CRYSTAL GROWTH (ATM-7920399 A01)*; 12 MONTHS $146,700

TELFORD, JAMES W; *THE CLOUD PHYSICS AND DYNAMICS OF SEA STRATUS (ATM-8012929*)*; 12 MONTHS $291,640

HALLETT, JOHN; *ICE PHASE EVOLUTION IN MONTANA SUMMER CUMULI (ATM-8020415)*; 20 MONTHS $255,200

HUDSON, JAMES G; *FIELD MEASUREMENTS OF CLOUD CONDENSATION NUCLEUS SPECTRA AND CONDENSATION COEFFICIENT VARIATIONS (ATM-8109562)*; 12 MONTHS $51,140

NEW HAMPSHIRE

DARTMOUTH COLLEGE

MORGAN, MILLETT G; *DISPERSION OF TRAVELING IONOSPHERIC DISTURBANCES (ATM-7916156 A02)*; 12 MONTHS $79,300

STOIBER, RICHARD E; *MASAYA VOLCANO, NICARAGUA, VOLCANOLOGY AND THE EFFECTS OF THE HIGH LEVEL OF GAS EMISSION (12R-8025719*)*; 12 MONTHS $25,000

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KRAICHNAN, ROBERT H; *TURBULENCE DYNAMICS AND PREDICTABILITY (ATM-8008893 A01)*; 12 MONTHS $64,100

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

ARNOLDY, ROGER, AND MOORE, THOMAS E; *GEOSYCHRONOUS ORBIT CORRELATIVE STUDIES (ATM-7920484 A01)*; 12 MONTHS $34,400

CLARK, RONALD R; *MONITORING OF UPPER ATMOSPHERIC WINDS WITH THE UNH METEOR RADAR SYSTEM (ATM-8109011*)*; 12 MONTHS $35,600

FISK, LENNARD A; *THE INTERACTIONS OF ENERGETIC PARTICLES WITH THE SOLAR WIND-A THEORETICAL STUDY (ATM-8109545)*; 12 MONTHS $35,700

LOCKWOOD, JOHN A, AND WEBBER, WILLIAM R; *A STUDY OF COSMIC RAY MODULATION AND SOLAR FLARE PARTICLE PROPAGATION USING GROUND-BASED NEUTRON MONITORS AND SPACECRAFT COSMIC RAY DETECTORS (ATM-8111036)*; 12 MONTHS $70,000

NEW JERSEY

PRINCETON UNIVERSITY

MELLOR, GEORGE L, KURIHARA, YOSHIO, LIPPS, FRANK B, AND ORLANSKI, ISIDORO; *RESEARCH IN MICRO AND MESOSCALE GEOPHYSICAL FLUID DYNAMICS (ATM-7719955 A03)*; 12 MONTHS $47,300

FELS, STEPHEN B, GORDON, C T, MAHLMAN, J D, MANABE, S, AND MIYAKODA, K; *RESEARCH IN LARGE SCALE ATMOSPHERIC CIRCULATION (ATM-7727962 A03)*; 12 MONTHS $58,800

SARMIENTO, JORGE L; *GRADUATE STUDENT RESEARCH IN ATMOSPHERE-OCEAN INTERACTION AND CLIMATIC VARIABILITY (ATM-8106800)*; 12 MONTHS $48,300

OKUDA, H; *ACCELERATION, HEATING AND TRANSPORT OF PLASMAS ALONG AURORAL FIELD LINES (ATM-8115357)*; 12 MONTHS $291,800

RUTGERS UNIVERSITY

PESKIN, RICHARD L; *TURBULENCE AND TURBULENT DISPERSION FOR A TWO-DIMENSIONAL SIMULATED ATMOSPHERIC MODEL (29M-8019887)*; 12 MONTHS $44,200

PESKIN, RICHARD L; *TURBULENCE AND TURBULENT DISPERSION FOR A TWO-DIMENSIONAL SIMULATED ATMOSPHERIC MODEL (ATM-8019887 A01)*; 12 MONTHS $107,700

HARNACK, ROBERT; *DIAGNOSIS AND PREDICTION OF SHORT-RANGE CLIMATIC ANOMALIES (ATM-8020136)*; 12 MONTHS $75,000

NEW MEXICO

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

COLGATE, STIRLING A; *TORNADO MEASUREMENTS (ATM-8002427)*; 24 MONTHS $50,000

GROSS, GERARDO W; *DIELECTRIC DISPERSION AND CONDUCTIVITY OF AMMONIUM COMPOUNDS IN ICE (ATM-8016516)*; 24 MONTHS $47,500

WINN, WILLIAM P, AND MOORE, CHARLES B; *MEASUREMENTS OF ELECTRICAL CONDITIONS IN THUNDERCLOUDS (ATM-8017330)*; 36 MONTHS $96,000

WINN, WILLIAM P, DYE, JAMES E, AND MOORE, CHARLES B; *ELECTRIC FIELD AND HYDROMETEOR MEASUREMENTS WITH AIRCRAFT (ATM-8026059)*; 12 MONTHS $46,900

RAYMOND, DAVID J; *STUDIES OF MOIST CONVECTION (ATM-8106693)*; 12 MONTHS $35,800

MOORE, CHARLES B; *SUPPORT OF TRIP 81 THUNDERSTORM STUDIES (ATM-8111759)*; 12 MONTHS $36,200

NEW YORK

CLARKSON COLLEGE OF TECHNOLOGY

KERKER, MILTON; *PHOTOPHORETIC FORCES ON SMALL PARTICLES IN THE ATMOSPHERE (ATM-8016873)*; 24 MONTHS $65,400

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

BROECKER, WALLACE S, JACOBY, GORDON C, AND LAWRENCE, JAMES R; *RECOVERY AND INTERPRETATION OF PALEOCLIMATIC INFORMATION IN STABLE ISOTOPES OF NATURAL WATERS USING TREE-RING CELLULOSE (ATM-7918920 A01)*; 12 MONTHS $132,000

JACOBY, GORDON C, AND COOK, EDWARD R; *DERIVATION OF CLIMATIC INFORMATION FROM TREE-RING ANALYSIS (ATM-7919285 A01)*; 12 MONTHS $159,400

KUKLA, GEORGE J, AND UNTERSTEINER, NORBERT; *CHANGES OF SNOW AND ICE FIELDS IN TIME (ATM-8001470 A01*)*; 12 MONTHS $112,950

BALACHANDRAN, NAMBATH K; *INFRASONIC SIGNALS RELATED TO LIGHTNING DISCHARGES (ATM-8015311)*; 12 MONTHS $50,600

MC INTYRE, ANDREW; *THE ROLE OF THE ATLANTIC OCEAN IN NORTHERN HEMISPHERE GLACIATION (OCE-8018177*)*; 12 MONTHS $63,545

HAYS, JAMES D, CLINE, ROSE M, MC INTYRE, ANDREW, MORLEY, JOSEPH J, AND SHACKLETON, NICHOLAS; *PROJECT SPECMAP: MAPPING VARIATIONS IN OCEAN SPECTRA OVER A FREQUENCY RANGE 10-5 TO 10-1 CYCLES PER YEAR (ATM-8019253*)*; 12 MONTHS $143,000

BROECKER, WALLACE S; *GLACIAL TO INTERGLACIAL CHANGES IN OCEAN CHEMISTRY (OCE-8019448*)*; 12 MONTHS $20,000

JACOBY, GORDON C, AND COOK, EDWARD R; *DEVELOPMENT OF AN EASTERN TREE-RING NETWORK FOR CLIMATIC RESEARCH (ATM-8108459)*; 12 MONTHS $76,800

KATZ, ELI J; *THE RESPONSE OF THE EQUATORIAL ATLANTIC OCEAN TO THE ANNUAL WIND CYCLE DURING F.G.G.E. (29M-8109197)*; 24 MONTHS $92,556

CORNELL UNIVERSITY

LUMLEY, JOHN L, AND WARHAFT, ZELLMAN; *ATMOSPHERIC TURBULENCE (ATM-7922006 A01)*; $125,000

FARLEY, DONALD T; *AERONOMICAL AND METEOROLOGICAL RESEARCH AT THE JICAMARCA RADIO OBSERVATORY (ATM-8007971 A02*)*; 12 MONTHS $180,700

WIESENFELD, JOHN R; *O(1D2) PRODUCTION AND DEACTIVATION PROCESSES OF ATMOSPHERIC INTEREST (ATM-8017066)*; 12 MONTHS $76,912

KELLEY, MICHAEL C; *MULTIEXPERIMENTAL STUDIES OF THE WIND & WAVE PATTERNS IN THE UPPER ATMOSPHERE & IONOSPHERE (ATM-8107134)*; 12 MONTHS $76,800

FARLEY, DONALD T; *CONTINUATION OF STUDIES OF THE ARECIBO ATMOSPHERE (ATM-8108381*)*; 12 MONTHS $107,200

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

SIGGIA, ERIC D; *STATISTICAL MECHANICS OF TURBULENCE IN TWO AND THREE DIMENSIONS (ATM-8005796)*; 12 MONTHS $29,200

FARLEY, DONALD T; *STUDIES OF THE EQUATORIAL IONOSPHERE AND ATMOSPHERE (ATM-8022535*)*; 12 MONTHS $134,000

NEW YORK UNIVERSITY

GHIL, MICHAEL; *INTERNAL AND EXTERNAL CAUSES OF GLACIATION CYCLES (ATM-8018671)*; 12 MONTHS $34,500

POLYTECHNIC INSTITUTE OF NEW YORK

KUO, SZU-PING; *THEORETICAL STUDIES CONCERNING THE INTERACTION OF POWERFUL RADIO WAVES WITH THE IONOSPHERE (ATM-8008296)*; 12 MONTHS $22,000

STATE UNIVERSITY AT ALBANY

VONNEGUT, BERNARD; *ATMOSPHERIC ELECTRICITY (ATM-7991090 A01)*; 12 MONTHS $87,000

MOHNEN, VOLKER A; *MICROPHYSICAL AND CHEMICAL PROCESSES IN THE TROPOSPHERE (ATM-7925435 A01)*; 12 MONTHS $105,000

CHYLEK, PETR; *LIGHT SCATTERING BY NONSPHERICAL PARTICLES (ATM-8007443)*; 12 MONTHS $72,000

BLANCHARD, DUNCAN C; *ELECTRICAL CHARGES AND BACTERIAL CONCENTRATIONS IN JET DROPS, AND THE INVOLVEMENT OF JET DROPS IN AN ATMOSPHERIC SEA-SALT INVERSION (ATM-8015495)*; 12 MONTHS $72,500

LALA, G GARLAND, AND JIUSTO, JAMES E; *MEASUREMENT AND MODELING OF RADIATION FOG (ATM-8022208)*; 12 MONTHS $88,900

MOLINARI, JOHN; *HURRICANE LANDFALL STUDIES (ATM-8025559)*; 12 MONTHS $19,972

MOLINARI, JOHN; *HURRICANE LANDFALL STUDIES (ATM-8025559 A01)*; $25,988

ORVILLE, RICHARD E; *LIGHTNING STUDIES IN THE THUNDERSTORM RESEARCH INTERNATIONAL PROGRAM (TRIP) AND IN THE COOPERATIVE CONVECTIVE PRECIPITATION EXPERIMENT (CCOPE) (ATM-8026533*)*; 12 MONTHS $224,800

BOSART, LANCE F; *SYNOPTIC AND SUB-SYNOPTIC CASE STUDIES OF CYCLONEANTICYCLONE COUPLETS (ATM-8026557)*; 12 MONTHS $53,600

BOSART, LANCE F; *SYNOPTIC AND SUB-SYNOPTIC CASE STUDIES OF CYCLONEANTICYCLONE COUPLETS (ATM-8026557 A01)*; $52,600

MOHNEN, VOLKER A, AND MCLAREN, EUGENE; *SO2 OXIDATION RATE ON WELL-CHARACTERIZED SURFACES -- A LABORATORY STUDY (ATM-8106061)*; 12 MONTHS $104,071

MOHNEN, VOLKER A; *WORKSHOP/CONFERENCE ON HETEROGENEOUS CATALYSIS--ITS POTENTIAL IMPORTANCE TO ATMOSPHERIC CHEMISTRY (29M-8106617)*; 12 MONTHS $36,384

CIPRIANO, RAMON J; *THE RELATIVE IMPORTANCE OF JET AND FILM DROPS IN THE PRODUCTION OF THE MARINE AEROSOL AND RESPIRABLE BIOSOLS (ATM-8108711)*; 12 MONTHS $60,095

UNIVERSITY OF ROCHESTER

THOMAS, JOHN H; *DYNAMICAL PHENOMENA IN SUNSPOTS: THEORY AND OBSERVATION (ATM-8021305)*; 24 MONTHS $62,700

GABRIEL, K R, AND HALL, W J; *PERMUTATION INFERENCE IN WEATHER MODIFICATION EXPERIMENTATION (ATM-8109586)*; 12 MONTHS $71,300

NORTH CAROLINA

DUKE UNIVERSITY

KNOERR, KENNETH R, AND SHAUGHNESSY, EDWARD J; *RELATING FLOW STRUCTURE WITHIN FOREST CANOPIES TO TURBULENT EXCHANGE WITH THE ATMOSPHERE (ATM-7825944 A01)*; 12 MONTHS $60,000

LIVINGSTONE, DANIEL A; *DETAILED TROPICAL RECORDS OF GLOBAL CLIMATIC CHANGE (ATM-8003516 A01)*; 6 MONTHS $75,000

LIVINGSTONE, DANIEL A; *DETAILED TROPICAL RECORDS OF GLOBAL CLIMATIC CHANGE (ATM-8003516 A02*)*; 12 MONTHS $85,500

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

ARYA, S P S; *PLANETARY BOUNDARY LAYER MODELING AND PARAMETERIZATION (ATM-8024048*)*; 12 MONTHS $6,000

ARYA, S P S; *PLANETARY BOUNDARY LAYER MODELING AND PARAMETERIZATION (ATM-8024048 A01)*; $41,500

OHIO

CASE WESTERN RESERVE UNIVERSITY

MATHEWS, JOHN D; *RESEARCH IN IONOSPHERIC PHYSICS (ATM-7918379 A01)*; 12 MONTHS $73,400

FRYE, GLENN M; *SOLAR NEUTRONS (ATM-8003323 A01)*; 6 MONTHS $18,400

OHIO STATE UNIVERSITY

FOSTER, MICHAEL R; *CORIOLIS-FORCE MODIFICATIONS OF THREE-DIMENSIONAL STRATIFIED FLOWS (ATM-7918677)*; 24 MONTHS $59,300

SELIGA, THOMAS A, AND BRINGI, VISWANATH N; *RAINFALL STUDIES USING THE DIFFERENTIAL REFLECTIVITY RADAR TECHNIQUES (ATM-8003376 A01)*; 6 MONTHS $67,500

THOMPSON, LONNIE G; *PALEOCLIMATIC ICE CORE RECORDS FROM THE TROPICAL QUELCCAYA ICE CAP (ATM-8105079)*; 12 MONTHS $50,000

OKLAHOMA

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

FOWLER, RICHARD G; *THE ELECTRICAL PROPAGATION PROCESSES IN LIGHTNING DISCHARGES (ATM-7918510 A01)*; 6 MONTHS $2,000

WILKINS, EUGENE M, AND SASAKI, YOSHI K; *DYNAMICS OF SIMULATED TORNADOES (ATM-8002102 A01)*; 12 MONTHS $44,609

CARR, FREDERICK H; *OBSERVATIONAL AND NUMERICAL STUDIES OF CYCLOGENESIS (ATM-8019490)*; 12 MONTHS $37,600

OREGON

OREGON GRADUATE CENTER

RASMUSSEN, REINHOLD A; *SYSTEMATIC GLOBAL MEASUREMENTS OF ATMOSPHERIC METHANE (ATM-8109047)*; 12 MONTHS $107,600

OREGON STATE UNIVERSITY

MAHRT, LARRY J; *FLUXES IN THE CLOUD TOPPED, AMTEX, MIXED LAYER (ATM-7910043 A01)*; 12 MONTHS $33,700

SCHRADER, HANS J; *LAMINATED SEDIMENTS OF THE CENTRAL GULF OF CALIFORNIA: A STUDY OF CLIMATIC AND SEDIMENTOLOGIC INFORMATION PRESERVED OVER THE LAST 150,000 YEARS (ATM-7919458 A01*)*; 12 MONTHS $55,850

GATES, W L, ESBENSEN, STEVEN, HAN, YOUNG J, SCHLESINGER, MICHAEL E, AND KIM, JEONG-WOO; *RESEARCH ON THE DYNAMICS OF CLIMATE (ATM-8001709 A02*)*; 6 MONTHS $88,750

MURPHY, ALLAN H, AND KATZ, RICHARD W; *DYNAMIC DECISION-MAKING MODELS FOR ASSESSING THE VALUE OF WEATHER AND CLIMATE INFORMATION (ATM-8004680 A01*)*; 12 MONTHS $93,550

ESBENSEN, STEVEN; *THE ENVIRONMENT OF TROPICAL MESOSCALE CLOUD SYSTEMS (ATM-8019951)*; 12 MONTHS $46,400

ESBENSEN, STEVEN; *THE ENVIRONMENT OF TROPICAL MESOSCALE CLOUD SYSTEMS (ATM-8019951 A01)*; 12 MONTHS $46,100

POLLARD, DAVID, AND GATES, W L; *MODELING THE CAUSES OF THE QUATERNARY ICE AGE (ATM-8019762)*; 12 MONTHS $52,000

DEARDORFF, JAMES W; *LABORATORY INVESTIGATIONS OF MIXED LAYER TURBULENCE AND ENTRAINMENT (ATM-8019778)*; 12 MONTHS $119,000

KIM, JEONG-WOO; *DYNAMICS OF MULTIPLE EQUILIBRIA IN SIMPLE ATMOSPHERIC SYSTEMS (ATM-8020204*)*; 12 MONTHS $45,800

SIMONEIT, BERND R; *BIOGENIC ORGANIC MATTER IN TROPOSPHERIC PARTICULATES: ASSESSMENT, SOURCES AND FLUX (ATM-8118101)*; 12 MONTHS $67,920

PENNSYLVANIA

DREXEL UNIVERSITY

KREITZBERG, CARL W; *NUMERICAL WEATHER PREDICTION EXPERIMENTS IN FLASH FLOOD CASES (ATM-7802703 A02*)*; 6 MONTHS $10,000

FRANKLIN INSTITUTE

POMERANTZ, MARTIN A, AND DUGGAL, SHAKTI P; *THE SUN AND COSMIC RAYS (ATM-8005866 A01)*; 12 MONTHS $148,100

LEHIGH UNIVERSITY

MACPHERSON, ALISTER K, AND HILTON, PETER D; *AN EXAMINATION OF FINITE ELEMENTS FOR FRONTOGENESIS STUDIES (ATM-8006937 A01)*; 12 MONTHS $84,500

MILLERSVILLE STATE COLLEGE

ROSS, ROBERT S; *NUMERICAL DIAGNOSTIC STUDIES OF GATE SYNOPTIC SCALE DISTURBANCE (ATM-7825857 A01)*; 12 MONTHS $26,800

PENNSYLVANIA STATE UNIVERSITY

DUTTON, JOHN A, AND CLARK, JOHN H; *THERMALLY FORCED ATMOSPHERIC FLOW (ATM-7908354 A01)*; 12 MONTHS $73,100

YORK, THOMAS M, AND MITCHELL, JOHN D; *ANALYSIS AND DEVELOPMENT OF ROCKET BORNE PROBES FOR STUDY OF MIDDLE ATMOSPHERE COMPOSITION AND ELECTRODYNAMICS (ATM-8004215 A01*)*; 12 MONTHS $70,000

PANOFSKY, HANS A; *PROFILE ANALYSIS AT THE BOULDER ATMOSPHERIC OBSERVATORY (ATM-8006103)*; 12 MONTHS $36,700

ALBRECHT, BRUCE A; *THE THERMODYNAMIC STRUCTURE OF THE TRADES (ATM-8009307 A01)*; 12 MONTHS $47,100

CARLSON, TOBY N, AND ANTHES, RICHARD A; *DOWNSTREAM EFFECTS OF DESERT CIRCULATIONS: A NUMERICAL STUDY OF THE SAHARAN AIR LAYER, PART I (ATM-8011931 A01)*; 12 MONTHS $48,200

UNIVERSITY OF PITTSBURGH

BIONDI, MANFRED A, AND SIPLER, DWIGHT; *AIRGLOW AND AURORAL STUDIES OF THE EARTH'S IONOSPHERE (ATM-7827598 A02)*; 12 MONTHS $87,200

ZIPF, EDWARD C; *LABORATORY STUDIES ON DISSOCIATIVE RECOMBINATION OF VIBRATIONALLY EXCITED IONS AND ON AERONOMICALLY IMPORTANT METASTABLE SPECIES (ATM-8107145)*; 12 MONTHS $60,000

PUERTO RICO

UNIVERSITY OF PUERTO RICO, RIO PIEDRAS

HERRERO, FEDERICO A; *NIGHTTIME THERMOSPHERE DYNAMICS AT F-REGION HEIGHTS: 6300A AIRGLOW/INCOHERENT SCATTER RADAR STUDIES (ATM-8009218 A01)*; 12 MONTHS $42,800

RHODE ISLAND

AMERICAN MATHEMATICAL SOCIETY

LEVEQUE, WILLIAM J, AND LEBOVITZ, NORMAN R; *1981 SEMINAR ON FLUID-DYNAMICAL PROBLEMS IN ASTROPHYSICS AND GEOPHYSICS, CHICAGO, ILLINOIS, JUNE 29-JULY 11, 1981 (MCS-8024110*)*; 6 MONTHS $10,657

BROWN UNIVERSITY

PRELL, WARREN L; *HISTORY OF THE SOUTHWEST MONSOON AS RECORDED BY ARABIAN SEA UPWELLING (ATM-7924013 A01)*; 12 MONTHS $54,570

IMBRIE, JOHN; *PROJECT SPECMAP: MAPPING VARIATIONS IN OCEAN SPECTRA OVER A FREQUENCY RANGE 10-5 TO 10-1 CYCLES PER YEAR (ATM-8018897*)*; 12 MONTHS $94,000

WEBB, THOMPSON; *COHMAP - CLIMATES OF THE HOLOCENE: MAPPING BASED ON POLLEN DATA (ATM-8111870)*; 12 MONTHS $119,540

CALO, JOSEPH M; *EXPERIMENTAL STUDIES OF THE INFRARED SPECTROSCOPY OF ATMOSPHERIC AND OTHER MOLECULAR COMPLEXES (ATM-8118100)*; 12 MONTHS $151,800

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY

DUCE, ROBERT A, AND BUTLER, ERIC L; *METHYL IODIDE AND THE ATMOSPHERIC IODINE CYCLE (ATM-7816516 A03)*; 12 MONTHS $35,830

LEINEN, MARGARET; *PROJECT SPECMAP: MAPPING VARIATIONS IN OCEAN SPECTRA OVER A FREQUENCY RANGE 10-5 TO 10-1 CYCLES PER YEAR (ATM-8018896*)*; 12 MONTHS $52,000

KENNETT, JAMES P; *HIGH RESOLUTION HOLOCENE PALEOCLIMATOLOGY AND STRATIGRAPHY, ORCA BASIN, GULF OF MEXICO (ATM-8019059*)*; 12 MONTHS $17,000

SOUTH CAROLINA

CLEMSON UNIVERSITY

SILL, BEN L, AND FISHER, JOHN S; *DEVELOPMENT OF A NEW VAPOR BUDGET TECHNIQUE FOR MEASUREMENT OF EVAPORATION (ATM-7919525 A01)*; 12 MONTHS $36,000

SOUTH DAKOTA

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY

ORVILLE, HAROLD D; *NUMERICAL MODELING STUDIES OF CONVECTIVE STORMS (ATM-7916147 A01)*; 12 MONTHS $156,000

SMITH, PAUL L, MUSIL, DENNIS J, AND HEYMSFIELD, ANDREW J; *STUDY OF PRECIPITATION AND ELECTRIFICATION PROCESSES IN MONTANA STORMS AS PART OF CCOPE (ATM-8025598)*; 12 MONTHS $217,500

TEXAS

RICE UNIVERSITY

WOLF, RICHARD A, DESSLER, ALEXANDER J, HAREL, MOSHE, AND SPIRO, ROBERT W; *THEORETICAL INVESTIGATION OF MAGNETOSPHERIC CONVECTION (ATM-7920157 A01)*; 12 MONTHS $95,000

CHAMBERLAIN, JOSEPH W; *THEORETICAL RESEARCH ON PLANETARY ATMOSPHERES (ATM-8006530 A01*)*; 12 MONTHS $47,500

DESSLER, ALEXANDER J, FEW, ARTHUR A, AND WEINHEIMER, ANDREW; *A THEORETICAL INVESTIGATION OF THE INFLUENCE OF CORONAE FROM HYDROMETERS ON THE PROPAGATION OF INTRACLOUD LIGHTNING (ATM-8016164)*; 12 MONTHS $80,200

HILL, T W, REIFF, P H, SPIRO, ROBERT W, AND WOLF, RICHARD A; *ANALYSIS OF DATA FROM THE MAGNETOSPHERE AND SOLAR WIND (ATM-8017316)*; 12 MONTHS $100,900

HILL, T W, AND DESSLER, ALEXANDER J; *THEORETICAL STUDY OF THE JOVIAN MAGNETOSPHERE (ATM-8019425)*; 12 MONTHS $79,700

BERNSTEIN, WILLIAM, AND ANDERSON, HUGH R; *BEAM-PLASMA DISCHARGE (ATM-8022550)*; 12 MONTHS $59,800

GANGULY, SUMAN; *COORDINATED INCOHERENT SCATTER AND HF SOUNDER OBSERVATIONS AT ARECIBO (ATM-8022871)*; 12 MONTHS $70,000

GANGULY, SUMAN; *COORDINATED INCOHERENT SCATTER AND HF SOUNDER OBSERVATIONS AT ARECILO (ATM-8022871 A01)*; $12,200

STEBBINGS, RONALD F; *LABORATORY STUDY OF ATOMIC AND MOLECULAR COLLISION PROCESSES OF ATMOSPHERIC IMPORTANCE (ATM-8023219*)*; 12 MONTHS $126,300

GORDON, WILLIAM E; *IONOSPHERIC MODIFICATION EXPERIMENTS AT ARECIBO (29M-8116046)*; 12 MONTHS $20,000

TEXAS A & M UNIVERSITY

MCGUIRK, JAMES P; *VACILLATION: ITS VARIABILITY AND CLIMATE IMPLICATIONS (ATM-7726181 A02)*; $1,300

GRIFFITHS, JOHN F; *A STUDY OF THE VARIABILITY OF SOME CLIMATIC ELEMENTS AT LONG-PERIOD STATIONS IN THE UNITED STATES (ATM-7901088 A02)*; $3,500

DAS, PHANINDRA; *VORTICITY CONCENTRATION IN THE SUBCLOUD LAYERS OF A ROTATING CLOUD (ATM-8023825)*; 12 MONTHS $49,900

TEXAS TECH UNIVERSITY

LEARY, COLLEEN A; *MESOSCALE ORGANIZATION OF TROPICAL CONVECTION (ATM-8006100 A01)*; 12 MONTHS $58,500

UNIV OF TEXAS AT AUSTIN

KOSCHMIEDER, E L; *LABORATORY MODELS OF LARGE-SCALE ATMOSPHERIC MOTIONS (ATM-8007626)*; 24 MONTHS $47,000

TAJIMA, TOSHIKI; *SIMULATION STUDY OF SPACE PLASMA PHYSICS (ATM-8110539)*; 12 MONTHS $74,100

UNIV OF TEXAS AT DALLAS

TINSLEY, BRIAN A; *THEORETICAL AND OBSERVATIONAL STUDIES OF NEUTRAL ATOM PRECIPITATION (ATM-7913211 A02*)*; $3,300

KLUMPAR, DAVID M, AND HEIKKILA, WALTER J; *MAGNETOSPHERE-IONOSPHERE COUPLING STUDIES USING THE ISIS POLAR ORBITING SATELLITES (ATM-8002117 A01)*; 12 MONTHS $38,400

MCCLURE, JOHN P, AND HANSON, WILLIAM B; *HIGH RESOLUTION RADAR AND ION TRAP STUDIES ON IONOSPHERIC IRREGULARITIES (ATM-8007560 A01)*; 12 MONTHS $65,800

HEIKKILA, WALTER J, AND CRAGIN, BRUCE L; *THE ONSET OF A SUBSTORM (ATM-8025194)*; 12 MONTHS $70,000

UNIV OF TEXAS AT SAN ANTONIO

BURCH, JAMES L; *EFFECTS OF THE INTERPLANETARY MAGNETIC FIELD ON THE DAYSIDE MAGNETOSPHERE (ATM-7826762 A01)*; 24 MONTHS $68,500

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

BERING, EDGAR A; *ROCKET-BORNE STUDY OF AURORAL ELECTRIC FIELDS AND CURRENTS (ATM-8106796)*; 18 MONTHS $25,000

UTAH

UNIVERSITY OF UTAH

FUKUTA, NORIHIKO; *LABORATORY STUDIES OF ICE CRYSTALS GROWTH KINETICS (ATM-8004108 A01)*; 12 MONTHS $62,200

PAEGLE, JULIA N, AND PAEGLE, JAN; *SHORT TERM REGIONAL EFFECTS OF THE GLOBAL DISTRIBUTION OF TOPOGRAPHY AND MONSOONS (29M-8018158)*; 12 MONTHS $27,300

PAEGLE, JULIA N, AND PAEGLE, JAN; *SHORT TERM REGIONAL EFFECTS OF THE GLOBAL DISTRIBUTION OF TOPOGRAPHY AND MONSOONS (29M-8018158 A01)*; 12 MONTHS $38,600

FUKUTA, NORIHIKO; *COMPARATIVE AIRBORNE TESTS OF AN ORGANIC CLOUD SEEDING MATERIAL (ATM-8106792)*; 15 MONTHS $108,650

UTAH STATE UNIVERSITY

TORR, DOUGLAS G, AND TORR, MARSHA R; *THEORETICAL STUDIES OF THERMOSPHERIC COMPOSITION, ENERGETICS AND DYNAMICS (ATM-8005088 A01)*; 12 MONTHS $59,700

SCHUNK, ROBERT W; *ADDITIONAL THEORETICAL STUDIES OF PLASMA AND NEUTRAL GAS TRANSPORT PROCESSES IN THE IONOSPHERE (ATM-8015497)*; 12 MONTHS $88,000

MOORE, WILLIAM M, AND MC CULLOUGH, EDWARD A; *A STUDY OF HALOGENATED COMPOUNDS OF ATMOSPHERIC IMPORTANCE USING NEGATIVE SURFACE IONIZATION (ATM-8015582)*; 12 MONTHS $70,600

TORR, MARSHA R; *CALIBRATION OF MEASUREMENTS OF ATMOSPHERIC EMISSIONS (ATM-8022536)*; 16 MONTHS $16,400

DOUPNIK, JOE R, AND FOSTER, JOHN C; *ALASKAN INCOHERENT SCATTER RADAR INVESTIGATIONS OF THE HIGH LATITUDE IONOSPHERE (ATM-8111464*)*; 12 MONTHS $80,000

VERMONT

INDIVIDUAL AWARD

BETTS, ALAN K; *DEVELOPMENT OF CONVECTIVE MODELS AND PARAMETERIZATIONS (ATM-7915788 A01)*; $6,200

NORWICH UNIVERSITY

PARKER, GARY D; *SOLAR CORONAL ROTATION AND RECURRENT PHENOMENA IN INTERPLANETARY SPACE (ATM-7911109 A01)*; 24 MONTHS $21,000

VIRGINIA

UNIVERSITY OF VIRGINIA

SIMPSON, ROBERT H, SIMPSON, J M, AND WARNER, CHARLES; *INVESTIGATION OF THE CIRCULATION AND PRECIPITATION STRUCTURE OF SOUTH CHINA SEA DISTURBANCES DURING THE WINTER MONEX (ATM-7800233 A02)*; $8,300

WARNER, CHARLES; *INVESTIGATION OF CLOUD POPULATIONS IN RELATION TO SYNOPTIC CONDITIONS OVER THE BAY OF BENGAL (ATM-8012214 A01)*; 12 MONTHS $41,800

PIELKE, ROGER A; *A STUDY OF MESOSCALE ATMOSPHERIC PROCESSES (ATM-8100514)*; 12 MONTHS $73,000

WASHINGTON

BATTELLE MEMORIAL INSTITUTE-BATTELLE NORTHWEST LABORATORIES

KLECKNER, EDWARD W, SLATER, DONALD W, AND SMITH, LEROI L; *ANALYSIS OF PHOTOMETRIC OBSERVATIONS OF THE MID-LATITUDE AURORAL REGION OBTAINED DURING THE IMS (ATM-8111896)*; 12 MONTHS $25,000

UNIVERSITY OF WASHINGTON

BUSINGER, JOOST A, AND FRIEHE, CARL A; *CONTINUED ANALYSIS OF EXPERIMENTS AT THE BOULDER ATMOSPHERIC OBSERVATORY (BAO) (ATM-7926397 A02)*; 12 MONTHS $66,500

HOLTON, JAMES R; *DYNAMICS OF LARGE SCALE ATMOSPHERIC CIRCULATIONS (ATM-7926487 A01)*; 12 MONTHS $85,000

PARKS, GEORGE K; *AURORAL X-RAY IMAGING (ATM-8002460 A01)*; $10,300

PARKS, GEORGE K, AND MAUK, BARRY H; *AURORAL X-RAY IMAGING (ATM-8002460 A02)*; 12 MONTHS $133,900

HOBBS, PETER V; *STUDIES OF EXTRATROPICAL CYCLONIC STORMS: THE CYCLES PROJECT (29M-8009203)*; 12 MONTHS $199,500

COVERT, DAVID S; *OPTICAL SENSING OF SULFATE COMPOUNDS IN ATMOSPHERIC AEROSOLS (ATM-8011395)*; 12 MONTHS $87,940

HARRISON, HALSTEAD; *MEASUREMENTS OF LIGHT HYDROCARBONS IN THE MARINE SUBSURFACE AND ATMOSPHERIC BOUNDARY LAYERS (ATM-8016915)*; 12 MONTHS $25,865

KATSAROS, KRISTINA B; *MEASUREMENT AND ANALYSIS OF RADIATION FLUX COMPONENTS IN MID-LATITUDE CYCLONES AS PART OF STREX (STORM TRANSFER RESPONSE EXPERIMENT) (ATM-8017069)*; 12 MONTHS $39,600

HOUZE, ROBERT A; *STUDIES OF WINTER MONSOON CLOUDS AND PRECIPITATION (ATM-8017327 A01)*; 12 MONTHS $68,300

BAKER, D JAMES, AND TREADWELL, T K; *ANALYSIS OF FOGE DRIFTING BUOY DATA (29M-8018178)*; 12 MONTHS $81,750

BUSINGER, JOOST A, AND FRIEHE, CARL A; *ANALYSIS OF JASIN DATA OBTAINED WITH NCAR ELECTRA (ATM-8019753)*; 24 MONTHS $48,600

STUIVER, MINZE; *ATMOSPHERIC 14C ACTIVITY AND ITS RELATIONSHIP TO SOLAR VARIABILITY AND CLIMATIC CHANGE (ATM-8022240)*; 12 MONTHS $98,360

REED, RICHARD J; *TROPICAL CIRCULATION STUDIES BASED ON GATE AND FGGE DATA (29M-8103697)*; 12 MONTHS $99,500

WALLACE, JOHN M, AND HARTMANN, DENNIS L; *GENERAL CIRCULATION STUDIES (ATM-8106099)*; 12 MONTHS $150,400

HOLLOWAY, GREG; *PROCESS STUDIES IN THE PREDICTABILITY OF THE ATMOSPHERE (ATM-8113253)*; 12 MONTHS $39,700

WASHINGTON STATE UNIVERSITY

CRONN, DAGMAR R; *ANALYSIS OF ATMOSPHERIC GASES USING PHOTOIONIZATION DETECTION (ATM-7921996 A01)*; 12 MONTHS $57,750

WISCONSIN

UNIVERSITY OF WISCONSIN SYSTEM OFFICE

HORN, LYLE H; *AVAILABLE POTENTIAL ENERGY IN THE EARTH'S CYCLOGENETIC REGIONS DURING DIFFERENT WEATHER REGIMES (ATM-7918761 A01)*; 12 MONTHS $53,700

UNIVERSITY OF WISCONSIN-MADISON

MARTIN, DAVID W; *THE MEASUREMENT AND METEOROLOGICAL SIGNIFICANCE OF SAHARAN DUST AS OBSERVED BY GEOSYNCHRONOUS SATELLITES (ATM-7711691 A02)*; 13 MONTHS $21,700

JOHNSON, DONALD R; *DIAGNOSTICS OF THE HEAT SOURCES AND SINKS OF THE ASIATIC MONSOON AND THE THERMALLY FORCED PLANETARY SCALE RESPONSE (29M-7822384 A02*)*; 12 MONTHS $52,835

YOUNG, JOHN A; *LOW-LEVEL MONSOON WIND DYNAMICS (ATM-7825503 A02)*; 12 MONTHS $103,100

HASTENRATH, STEFAN L; *INTERANNUAL VARIABILITY OF TROPICAL CLIMATE (ATM-7911131 A01)*; 12 MONTHS $53,500

HOUGHTON, DAVID D; *THE SEASONAL CYCLE IN THE ATMOSPHERIC CIRCULATION (ATM-7911996 A02)*; 12 MONTHS $89,000

KUTZBACH, JOHN E; *AN INTERDISCIPLINARY RESEARCH PROGRAM IN CLIMATOLOGY (ATM-7926039 A01)*; 12 MONTHS $288,730

HOUGHTON, DAVID D; *ASSIMILATION OF SATELLITE AND RADAR DATA INTO MESOSCALE PREDICTION MODELS (ATM-8005369)*; 12 MONTHS $101,500

STULL, ROLAND B; *ANALYSIS OF GATE DATA FOR INTERNAL GRAVITY WAVES EXCITED BY CUMULUS CLOUDS (ATM-8012699 A01*)*; 12 MONTHS $53,300

HERMAN, GERALD F; *VISITING SCIENTISTS PROGRAM AT THE UNIVERSITY OF OXFORD (29M-8014177)*; 12 MONTHS $11,399

SUOMI, VERNER E; *ANALYSIS OF AIRCRAFT AND SATELLITE RADIATION OBSERVATIONS DURING SUMMER MONEX (29M-8014892)*; 12 MONTHS $45,776

ANDERSON, CHARLES E, AND SCHLESINGER, ROBERT E; *STUDIES OF THE DEVELOPMENT AND EVOLUTION OF LOCAL SEVERE STORMS FROM SESAME 1979 DATA (ATM-8017350)*; 12 MONTHS $113,900

SUOMI, VERNER E, AND GAUTIER, CATHERINE; *SATELLITE ESTIMATIONS OF LARGE-SCALE INSOLATION OVER THE TROPICAL OCEANS (29M-8019529)*; 12 MONTHS $51,700

CHU, JAN-HWA; *BUDGETS OF VORTICITY AND OF HEAT AND MOISTURE IN TROPICAL CONVECTIVE SYSTEMS (ATM-8020895)*; 12 MONTHS $64,700

CHU, JAN-HWA; *BUDGETS OF VORTICITY AND OF HEAT AND MOISTURE IN TROPICAL CONVECTIVE SYSTEMS (ATM-8020895 A01)*; 12 MONTHS $77,500

ROESLER, FRED L; *HIGH-RESOLUTION SPECTROSCOPIC STUDIES IN AERONOMY (ATM-8021064*)*; 12 MONTHS $30,000

SUOMI, VERNER E, AND BALOGUN, EKUNDAYO E; *WEST AFRICAN MONSOON WINDSETS DERIVED FROM METEOSAT DATA OVER THE WEST AFRICAN AND SOUTH ATLANTIC OCEAN REGIONS (29M-8024910)*; 12 MONTHS $49,300

JOHNSON, DONALD R; *DIAGNOSTICS OF OBSERVED AND NUMERICALLY SIMULATED EXTRATROPICAL CYCLONES (I) (ATM-8110678)*; 12 MONTHS $109,900

JOHNSON, DONALD R; *DIAGNOSTICS OF OBSERVED AND NUMERICALLY SIMULATED EXTRATROPICAL CYCLONES (II) (ATM-8110678 A01)*; $107,700

KUTZBACH, JOHN E, AND SWAIN, ALBERT M; *COHMAP: CLIMATES OF THE HOLOCENE: MAPPING BASED ON POLLEN DATA (ATM-8111455)*; 12 MONTHS $53,060

UNIVERSITY OF WISCONSIN-MILWAUKEE

MARTIN, DAVID W, AND SIKDAR, DHIRENDRA N; *A SATELLITE STUDY OF SOUTH CHINA SEA DISTURBANCES DURING WINTER MONEX (ATM-7818319 A01)*; 12 MONTHS $81,000

SIKDAR, DHIRENDRA N, AND MARTIN, DAVID W; *CONVECTION OVER THE INDIAN OCEAN AND THE MONSOON CIRCULATION DURING SUMMER MONEX (ATM-7920850 A01)*; 12 MONTHS $79,500

SIKDAR, DHIRENDRA N; *DYNAMICS AND ENERGETICS OF SEVERE STORMS AND THEIR MESOSCALE ENVIRONMENT DURING SESAME (ATM-8109144)*; 12 MONTHS $72,700

WYOMING

UNIVERSITY OF WYOMING

VALI, GABOR; *CLOUD PHYSICS STUDIES (ATM-7825986 A02)*; 5 MONTHS $49,300

BOYER, DON L; *ROTATING STRATIFIED FLOW OVER TOPOGRAPHIC FEATURES (ATM-7905933 A01)*; 12 MONTHS $49,500

HOFMANN, DAVID J, AND ROSEN, JAMES M; *STUDY OF STRATOSPHERIC AEROSOL SOURCES AND FORMATION PROCESSES (ATM-8016866)*; 12 MONTHS $125,500

VALI, GABOR; *CLOUD PHYSICS STUDIES (29M-8022549)*; 18 MONTHS $282,800

AUER, AUGUST H; *ASSESSMENT OF TERRAIN PHYSIOGRAPHICAL AND TOPOGRAPHICAL INFLUENCES ON CONVECTIVE CLOUD INITIATION IN CCOPE (ATM-8107096)*; 12 MONTHS $77,100

VALI, GABOR, AND POLITOVICH, MARCIA; *AIRCRAFT PROBING OF CONVECTIVE CLOUDS (ATM-8109007)*; 12 MONTHS $66,300

EARTH SCIENCES

ALABAMA

UNIVERSITY OF ALABAMA

THOMAS, WILLIAM A; *VARIATION IN TIME OF OROGENY ALONG OROGENIC BELTS FROM THE PERSPECTIVE OF CLASTIC WEDGES (EAR-8109470*)*; 12 MONTHS $32,340

ALASKA

UNIVERSITY OF ALASKA FAIRBANKS CAMPUS-GEOPHYSICAL INSTITUTE

HARRISON, WILLIAM D; *COLLABORATIVE RESEARCH ON SURGES OF VARIEGATED GLACIER (EAR-7919530 A01)*; 12 MONTHS $44,800

ROEDERER, JUAN G; *EQUIPMENT FOR DIGITAL SCALING OF ANALOG GEOPHYSICAL RECORDS (EAR-8114404)*; 12 MONTHS $3,287

UNIVERSITY OF ALASKA FAIRBANKS CAMPUS

ALLISON, CAROL W; *TAXONOMY AND EVOLUTIONARY IMPLICATIONS OF EARLY CAMBRIAN FOSSIL CHRYSOPHYTES (DEB-8109673*)*; 24 MONTHS $22,000

ARIZONA

ARIZONA STATE UNIVERSITY

SHAW, MILTON C; *ACQUISITION OF A SCANNING AUGER MICROPROBE (DMR-7910803 A01*)*; $10,000

BUSECK, PETER R; *SOLID STATE GEOCHEMISTRY: HIGH-RESOLUTION TRANSMISSION ELECTRON MICROSCOPY OF MINERALS (EAR-7926375 A01)*; 12 MONTHS $130,300

FERRY, JOHN M; *MINERALOGICAL, CHEMICAL, AND ISOTOPIC INVESTIGATIONS OF THE ROLE OF FLUID IN PETROGENESIS DURING METAMORPHISM (EAR-8020567)*; 24 MONTHS $87,000

NAVROTSKY, ALEXANDRA; *SILICATE GLASSES AND MELTS: THERMOCHEMICAL STUDIES (EAR-8022293*)*; 12 MONTHS $34,900

HOLLOWAY, JOHN R; *INTERACTIONS OF VOLATILES WITH MAGMAS (EAR-8108748)*; 12 MONTHS $81,800

UNIVERSITY OF ARIZONA

LOOMIS, TIMOTHY P, AND GANGULY, JIBAMITRA; *EXPERIMENTAL DETERMINATION OF DIFFUSION COEFFICIENTS IN ALUMINOUS GARNETS (EAR-7919733 A01)*; 12 MONTHS $42,600

NORTON, DENIS L; *QUANTITATIVE MODELS OF ORE DEPOSITION IN HYDROTHERMAL SYSTEMS (EAR-7919765 A01)*; 12 MONTHS $75,000

HAYNES, C; *LATE QUATERNARY GEOCHRONOLOGY (EAR-7926363 A01*)*; 12 MONTHS $40,000

DICKINSON, WILLIAM R; *CLASTIC DETRITUS IN CRETACEOUS-TERTIARY SEDIMENTARY STRATA OF CENTRAL UTAH FORELAND BASIN (EAR-7926379 A01)*; 12 MONTHS $35,917

NORTON, DENIS L; *TRANSPORT PROPERTIES OF THE SKAERGAARD MAGMA-HYDROTHERMAL SYSTEM (EAR-8007838)*; 24 MONTHS $75,300

BULL, WILLIAM B, AND SBAR, MARC L; *GEOMORPHIC AND SEISMIC STUDIES OF QUATERNARY TECTONISM IN THE ARIZONA SEISMIC BELT (EAR-8008213 A01)*; 12 MONTHS $45,000

DICKINSON, WILLIAM R, AND DAVIS, GEORGE H; *ORIGIN OF SYNTECTONIC MID-CENOZOIC CONGLOMERATIC SEQUENCES, SAN PEDRO REGION OF SOUTHERN ARIZONA (EAR-8018231)*; 24 MONTHS $34,992

CONEY, PETER J; *TECTONIC SIGNIFICANCE OF THE LIVINGSTON HILLS-MCCOY MOUNTAINS FORMATIONS AND RELATED ROCKS, SOUTHWESTERN ARIZONA AND SOUTHEASTERN CALIFORNIA (EAR-8018500)*; 12 MONTHS $30,100

FERGUSON, C W; *DENDROCHRONOLOGY OF BRISTLECONE PINE (EAR-8018687*)*; 12 MONTHS $20,000

DAMON, PAUL E; *CALIBRATION OF THE RADIOCARBON TIME SCALE (GS-8022250*)*; 18 MONTHS $12,000

BUTLER, ROBERT F; *PALEOMAGNETIC STUDY OF MID-TERTIARY VOLCANICS, SOUTHERN ARIZONA (EAR-8024274)*; 24 MONTHS $75,000

BAKER, VICTOR R; *HOLOCENE PALEOHYDROLOGY OF THE SOUTHWESTERN U.S. (EAR-8119981)*; 6 MONTHS $10,230

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

SILVER, LEON T; *FIELD AND ISOTOPIC STUDIES OF THE OLDER GEOLOGIC HISTORY OF THE SOUTHWESTERN MARGIN OF NORTH AMERICA (EAR-7623153 A05)*; 12 MONTHS $145,500

SILVER, LEON T; *INVESTIGATIONS OF THE PORPHYRY COPPER METALLOGENIC PROVINCE OF THE SOUTHWESTERN UNITED STATES (EAR-7723507 A02)*; 12 MONTHS $116,900

EPSTEIN, SAMUEL; *OXYGEN, HYDROGEN, CARBON, AND SILICON ISOTOPE STUDIES OF NATURALLY OCCURRING MATERIALS (EAR-7816873 A02)*; 12 MONTHS $149,100

TAYLOR, HUGH P; *OXYGEN AND HYDROGEN ISOTOPE STUDIES OF IGNEOUS ROCKS AND ASSOCIATED HYDROTHERMAL METAMORPHISM (EAR-7816874 A02)*; 12 MONTHS $115,000

ROSSMAN, GEORGE R; *AN EXAMINATION OF THE EFFECT OF HETERONUCLEAR CATION-CATION INTERACTIONS IN MINERALS UPON QUANTITATIVE CATION SITE DETERMINATIONS (EAR-7904801 A01)*; 12 MONTHS $45,900

ALBEE, ARDEN L; *CHEMICAL EQUILIBRIUM IN COEXISTING PHASES OF METAMORPHIC ROCKS (EAR-7919786 A01)*; 12 MONTHS $57,000

ROSSMAN, GEORGE R, AND SILVER, LEON T; *EXAMINATION OF THE ROLE OF URANIUM AND WATER IN ZIRCON IN RELATION TO THE METAMICTIZATION PROCESS (EAR-7919987 A01)*; 24 MONTHS $62,700

BURNETT, DONALD S; *TRACE ELEMENT RADIOGRAPHY, WITH EMPHASIS ON METEORITE STUDIES (EAR-7920091 A01)*; 12 MONTHS $74,700

SALEEBY, JASON B; *GEOCHRONOLOGICAL INVESTIGATION OF OPHIOLITIC AND ASSOCIATED VOLCANO-PLUTONIC ARC ASSEMBLAGES OF THE WESTERN SIERRA NEVADA - KLAMATH MOUNTAIN REGION, CALIFORNIA (EAR-7925998 A01)*; 12 MONTHS $46,800

AHRENS, THOMAS J; *SHOCK-WAVE MEASUREMENTS ON CANDIDATE CORE COMPONENTS (EAR-7926384 A01)*; 12 MONTHS $96,500

STOLPER, EDWARD; *PHASE EQUILIBRIA OF BASALTIC SYSTEMS (EAR-8009798)*; 24 MONTHS $86,000

SALEEBY, JASON B; *GEOCHRONOLOGICAL INVESTIGATION OF THE EARLY MESOZOIC SIALIC MARGIN OF THE SOUTHWEST CORDILLERA-SIERRA NEVADA REGION (EAR-8018811)*; 12 MONTHS $32,300

AHRENS, THOMAS J, AND STOLPER, EDWARD; *SHOCK WAVE MEASUREMENTS ON MANTLE MINERALS AND MAGMAS (EAR-8018819)*; 12 MONTHS $102,400

HELMBERGER, DONALD V; *FINE STRUCTURE OF THE LOWER MANTLE (EAR-8108616)*; 12 MONTHS $63,000

HELMBERGER, DONALD V; *OBSERVATIONAL SEISMOLOGY (EAR-8108627)*; 24 MONTHS $19,500

CALIFORNIA POLYTECHNIC ST UNIV,SAN LUIS OBISPO

HOFFMAN, KENNETH A; *TRANSITIONAL PALEOMAGNETIC FIELD BEHAVIOR FROM SITES IN AUSTRALIA AND NEW ZEALAND (EAR-8018791*)*; 24 MONTHS $51,500

LOS ANGELES COUNTY MUSEUM OF NATURAL HISTORY

BARNES, LAWRENCE G, SWIFT, CAMM C, WELTON, BRUCE J, AND MITCHELL, EDWARD D; *PALEOECOLOGY OF THE SHARKTOOTH HILL BONEBED (EAR-7916508 A01)*; 12 MONTHS $36,253

NAVAL POSTGRADUATE SCHOOL

THORNTON, EDWARD B; *BREAKING WAVE DESIGN CRITERION (EAR-8023425)*; 24 MONTHS $122,696

ROCKWELL INTERNATIONAL CORPORATION

TITTMANN, BERNHARD R, AND ABDEL-GAWAD, M; *ATTENUATION AND VELOCITY OF OCEANIC CRUSTAL ROCKS (EAR-8019966)*; 12 MONTHS $47,500

SAN DIEGO STATE UNIVERSITY

KRUMMENACHER, DANIEL; *FIELD, STRUCTURAL, PETROLOGIC AND STRATIGRAPHIC STUDIES OF THE BIG MARIA MOUNTAINS, ARICA MOUNTAIN AND PALEN PASS AREA (EAR-8012707)*; 24 MONTHS $63,357

MARSHALL, MONTE; *PALEOMAGNETIC STUDY OF TERTIARY VOLCANIC ROCKS, SOUTHERN BASIN AND RANGE PROVINCE, S.W. UNITED STATES AND NORTHERN MEXICO (EAR-8025876)*; 24 MONTHS $55,756

STANFORD UNIVERSITY

EINAUDI, MARCO T; *AN INTEGRATED STUDY OF THE GENESIS OF TUNGSTEN, COPPER, AND ZINC-BEARING SKARNS IN THE WESTERN UNITED STATES (EAR-7919588 A01)*; 12 MONTHS $60,400

VAN ANDEL, TJEERD H; *ALLUVIATION HISTORY AND HUMAN LAND USE IN THE PREHISTORY AND HISTORY OF THE SOUTHERN ARGOLID, GREECE (EAR-8006306 A01)*; 12 MONTHS $21,712

LIOU, JUHN G; *PETROLOGY, METAMORPHISM AND TECTONICS OF MELANGE TERRANES IN THE FRANCISCAN COMPLEX, CALIFORNIA (EAR-8008527 A01)*; 12 MONTHS $40,100

BROWN, GORDON E; *STRUCTURAL STUDIES OF ALUMINOSILICATE MELTS AND GLASSES (EAR-8016911*)*; 12 MONTHS $66,700

NUR, AMOS M; *WAVE ATTENUATION IN ROCKS UNDER CRUSTAL CONDITIONS: EFFECTS OF HIGH TEMPERATURE AND PORE PRESSURE (EAR-8018346)*; 12 MONTHS $44,300

MILLER, ELIZABETH L, AND LARUE, DAVID K; *CONTINENTAL MARGIN PALEOGEOGRAPHY AND TECTONICS, NORTHEASTERN NEVADA (EAR-8018763)*; 12 MONTHS $35,676

GELLER, ROBERT J; *THEORETICAL AND OBSERVATIONAL STUDY OF THE EARTH'S LATERAL HETEROGENEITY AND ATTENUATION (EAR-8019463)*; 12 MONTHS $35,000

NUR, AMOS M; *THE ROLE OF ACCRETED OCEANIC PLATEAUS IN THE TECTONICS OF ACTIVE MARGINS (EAR-8025578)*; 12 MONTHS $46,100

COX, ALLAN V; *PALEOMAGNETIC TEST OF A POSSIBLE ROTATION OF THE SIERRA NEVADA (EAR-8107702)*; 12 MONTHS $50,000

LARUE, DAVID K; *SEDIMENTARY, STRUCTURAL AND CHEMICAL EVOLUTION OF A PURPORTED CONTINENTAL MARGIN OF EARLY PROTEROZOIC AGE, LAKE SUPERIOR REGION (EAR-8108564)*; 12 MONTHS $28,144

MCWILLIAMS, MICHAEL O; *PALEOMAGNETISM AND TECTONICS OF THE SOUTHERN SIERRA NEVADA AND NORTHERN MOJAVE REGIONS, CALIFORNIA (EAR-8108567)*; 12 MONTHS $40,000

GELLER, ROBERT J; *SEISMOLOGICAL STUDIES OF TECTONIC PROCESSES (EAR-8108718)*; 12 MONTHS $45,000

THOMPSON, GEORGE A, AND CLAERBOUT, JON F; *WAVE EQUATION MIGRATION AND GEOLOGIC INTERPRETATION OF DEEP CRUSTAL SEISMIC REFLECTION PROFILES (EAR-8109894)*; 12 MONTHS $60,000

TERA ADVANCED SERVICES CORPORATION

NIAZI, MANSOUR; *MODELING OF NON-SEISMIC SURFACE SOURCES (EAR-8025722)*; 12 MONTHS $27,389

UNIVERSITY OF CALIFORNIA, BERKELEY

HELGESON, HAROLD C; *THEORETICAL INVESTIGATION OF GEOCHEMICAL PROCESSES (EAR-7714498 A03)*; 12 MONTHS $93,900

HELGESON, HAROLD C; *THEORETICAL INVESTIGATION OF GEOCHEMICAL PROCESSES (EAR-7714498 A04)*; $25,100

WENK, HANS-RUDO; *COLLABORATIVE RESEARCH ON DOLOMITE-MICROSTRUCTURE: ITS GEOLOGICAL SIGNIFICANCE AND QUANTATIVE INTERPRETATION (EAR-7823848 A01)*; 24 MONTHS $55,600

CARMICHAEL, IAN S; *THE WESTERN MEXICAN VOLCANIC BELT (EAR-8006043)*; 24 MONTHS $64,500

CURTIS, GARNISS H; *GEOCHRONOLOGY AND EVOLUTION OF IGNEOUS ROCKS IN CENTRAL CHILE (LAT 32-36 DEGREES S) (EAR-8018354)*; 12 MONTHS $40,000

ALVAREZ, WALTER, AND WENK, HANS-RUDO; *INTEGRATED STRUCTURAL STUDY OF THE UMBRIAN APENNINES -- A COMPACT FORELAND FOLD AND THRUST BELT (EAR-8022846)*; 12 MONTHS $35,002

OBERLANDER, THEODORE M; *USE OF ROCK VARNISH IN ANALYSIS OF PALEOENVIRONMENTS (SES-8024555*)*; 19 MONTHS $12,500

JOHNSON, LANE R; *MODELING OF NON-SEISMIC SURFACE SOURCES (EAR-8025270)*; 12 MONTHS $6,900

CARMICHAEL, IAN S; *STUDIES IN VOLCANIC PETROLOGY (EAR-8103544)*; 12 MONTHS $21,000

WRIGHT, JAMES E; *OPHIOLITIC MELANGE OF RATTLESNAKE CREEK TERRANE, KLAMATH MOUNTAINS, CALIFORNIA (EAR-8107735)*; 12 MONTHS $27,847

UNIVERSITY OF CALIFORNIA, DAVIS

WARD, PETER D; *BIOSTRATIGRAPHY AND MAGNETOSTRATIGRAPHY OF THE UPPER CRETACEOUS GREAT VALLEY SEQUENCE, NORTHERN CALIFORNIA (EAR-8019695)*; 24 MONTHS $49,872

MOORES, ELDRIDGE M, AND DAY, HOWARD W; *STRUCTURE AND PETROLOGY OF THE SMARTVILLE OPHIOLITE COMPLEX, AND SURROUNDINGS, SIERRA NEVADA, CALIFORNIA (EAR-8019697)*; 24 MONTHS $100,380

GREEN, HARRY W; *THE EFFECT OF CO2 ON THE PLASTICITY OF OLIVINE (EAR-8025490)*; 12 MONTHS $60,000

GREEN, HARRY W; *THE EFFECT OF CO2 ON THE PLASTICITY OF OLIVINE (EAR-8025490 A01)*; $4,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

DEPAOLO, DONALD J; *STUDIES OF CRUSTAL GROWTH AND MANTLE STRUCTURE USING ND AND SR ISOTOPIC VARIATIONS IN IGNEOUS ROCKS (EAR-7812966 A02)*; 24 MONTHS $155,100

BOETTCHER, ARTHUR L; *GEOCHEMICAL AND HIGH-PRESSURE STUDIES OF THE CRUST-MANTLE SYSTEM OF THE EARTH AND OTHER TERRESTRIAL PLANETS (EAR-7816413 A02)*; 12 MONTHS $140,000

BOETTCHER, ARTHUR L; *GEOCHEMICAL AND HIGH-PRESSURE STUDIES OF THE CRUST-MANTLE SYSTEM OF THE EARTH AND OTHER TERRESTRIAL PLANETS (EAR-7816413 A03)*; $6,000

HALL, CLARENCE A; *NORTH PYRENEAN FAULT, SOUTHERN FRANCE (EAR-7911176 A01)*; 12 MONTHS $30,350

ANDERSON, ORSON L; *EXPERIMENTAL EQUATION OF STATE AT HIGH PRESSURE AND HIGH TEMPERATURE (EAR-7911212 A01)*; 12 MONTHS $45,000

SCHOPF, J WILLIAM; *PRECAMBRIAN PALEOBIOLOGY (DEB-7921777 A01*)*; 12 MONTHS $20,000

ERNST, WALLACE G; *EXPERIMENTAL STUDIES OF ULTRAMAFIC AND MAFIC PHASE EQUILIBRIA IN SYNTHETIC AND NATURAL SYSTEMS TO 10KB UNDER CONTROLLED LABORATORY CONDITIONS (EAR-7923615 A01)*; 12 MONTHS $53,100

DE NIRO, MICHAEL J; *STABLE ISOTOPE BIOGEOCHEMISTRY OF THE METHANE-GENERATING BACTERIA (EAR-7926239 A01)*; $63,300

OERTEL, GERHARD; *PREFERRED ORIENTATION AND FLOW IN MICACEOUS ROCKS (EAR-8007444 A01)*; 12 MONTHS $42,500

LOEBLICH, HELEN T, AND LOEBLICH, ALFRED R; *SUPRAGENERIC RECLASSIFICATION OF THE FORAMINIFERIDA (PROTOZOA) (DEB-8008085*)*; 12 MONTHS $15,000

BOEHLER, REINHARD; *ADIABATIC GRADIENTS IN THE EARTH'S MANTLE (EAR-8010827 A01)*; 12 MONTHS $70,000

ERNST, WALLACE G; *INTEGRATED EXPERIMENTAL PHASE EQUILIBRIUM, FIELD, X R F, S E M, AND MICROPROBE INVESTIGATION OF METAMORPHIC AND IGNEOUS PROCESSES IN MESOZOIC CALIFORNIAN ARCS (EAR-8017295)*; 12 MONTHS $63,800

DAVIS, PAUL M; *ELECTRIC AND MAGNETIC MONITORING OF MT. ST. HELENS VOLCANO (EAR-8026450)*; 12 MONTHS $50,000

WASSON, JOHN T; *NEBULAR FRACTIONATION, CLASSIFICATION AND FORMATION LOCATIONS OF CHONDRITIC METEORITES (EAR-8026464)*; 12 MONTHS $55,200

UNIVERSITY OF CALIFORNIA, RIVERSIDE

MURPHY, MICHAEL A; *PALEONTOLOGY AND STRATIGRAPHY OF THE DENAY LIMESTONE, MIDDLE DEVONIAN OF CENTRAL NEVADA (EAR-8008525 A01)*; 20 MONTHS $75,100

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

BERGER, JONATHAN; *PRECISION MEASUREMENTS OF CRUSTAL DEFORMATION (EAR-7919797 A01)*; 12 MONTHS $69,000

GILBERT, J FREEMAN, AND JORDAN, THOMAS H; *OBSERVATION AND INTERPRETATION OF ATTENUATION AND MOMENT TENSORS (EAR-7923779 A01)*; 12 MONTHS $91,300

BERGER, JONATHAN, AND GILBERT, J FREEMAN; *LONG PERIOD SEISMOLOGY WITH THE GLOBAL IDA NETWORK (EAR-7926372 A01)*; 12 MONTHS $141,500

MOORE, GREGORY F, AND HAWKINS, JAMES W; *GEOLOGICAL EVOLUTION OF THE MOLUCCA SEA COLLISION ZONE (EAR-8007429 A01)*; 12 MONTHS $38,800

MACDOUGALL, J DOUGLAS, AND LUGMAIR, GUNTER W; *ISOTOPIC INVESTIGATIONS OF CONTINENTAL FLOOD BASALTS AND ULTRAMAFIC XENOLITHS FROM ALKALI BASALTS AND KIMBERLITES (EAR-8009231)*; 12 MONTHS $75,900

SPIESS, FRED N; *ACOUSTIC ASSESSMENT OF MANGANESE NODULE RESOURCES (EAR-8015593)*; 36 MONTHS $278,007

GOLDBERG, EDWARD D; *CHARCOAL AS A SINK FOR CARBON IN THE GLOBAL CARBON DIOXIDE CYCLE (EAR-8017491)*; 12 MONTHS $46,800

CRAIG, HARMON, AND LUPTON, JOHN E; *CONTINENTAL AND CONVERGENT - MARGIN VOLCANISM: ISOTOPIC STUDIES OF RARE GASES, CARBON, HYDROGEN, AND NITROGEN IN FLUIDS AND ROCKS (EAR-8018784*)*; 12 MONTHS $76,800

GILBERT, J FREEMAN; *DENSITY STRUCTURE OF THE EARTH'S DEEP INTERIOR AND A GEOPHYSICAL DETERMINATION OF THE GRAVITATIONAL CONSTANT (EAR-8025261)*; 12 MONTHS $89,600

MACDOUGALL, J DOUGLAS; *MAGMA EVOLUTION AND CHRONOLOGY FOR CASCADE VOLCANOES (EAR-8026448)*; 12 MONTHS $71,700

BERGER, JONATHAN; *IDA STATION AT URUMQI, CHINA (PRC) (EAR-8107683)*; 12 MONTHS $21,900

ENGEL, ALBERT E; *LATE MESOZOIC-CENOZOIC TECTONICS ALONG THE SALTON TROUGH-PENINSULAR RANGE BOUNDARY (EAR-8110867)*; 12 MONTHS $40,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

GOODKIND, JOHN M, AND WARBURTON, RICHARD J; *THE APPLICATION OF THE SUPERCONDUCTING GRAVIMETER TO IMPROVED MODELING OF THE OCEAN TIDES AND SOLID EARTH (EAR-8018760)*; 12 MONTHS $50,000

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

PROTHERO, WILLIAM A; *MICRO-SEISMICITY STUDIES IN THE SOUTHERN CALIFORNIA BORDERLANDS AND WESTERN TRANSVERSE RANGES (EAR-7919695 A01)*; 12 MONTHS $48,000

TILTON, GEORGE R; *EARLY HISTORY OF THE SOLAR SYSTEM (EAR-7925985)*; 12 MONTHS $59,700

TILTON, GEORGE R; *GEOCHEMISTRY OF ANDEAN HYDROTHERMAL ORE DEPOSITS AND ASSOCIATED IGNEOUS ROCKS, AND FLOOD BASALTS OF BRITISH COLUMBIA (EAR-8008211 A01)*; $33,606

MATTINSON, JAMES M; *U-PB GEOCHRONOLOGY OF OPHIOLITE-ISLAND ARC TERRANES IN THE CALIFORNIA COAST RANGES, BAJA CALIFORNIA, AND NORTHEASTERN OREGON-WESTERN IDAHO (EAR-8008215)*; 12 MONTHS $37,700

FULLER, MICHAEL D; *DOMAIN PATTERNS IN THE TITANOMAGNETITES: PSEUDOSINGLE DOMAIN BEHAVIOR AND THERMOREMANENCE (EAR-8018362)*; 24 MONTHS $60,300

PROTHERO, WILLIAM A; *STRUCTURE OF THE OCEANIC LITHOSPHERE FROM TELESEISMIC MONITORING WITH OCEAN BOTTOM SEISMOMETERS (EAR-8018680)*; 12 MONTHS $60,000

WISE, WILLIAM S; *COLLABORATIVE RESEARCH ON: A PETROLOGIC & GEOCHEMICAL STUDY OF THE EVOLUTION OF MAUNA KEA VOLCANO, HAWAII (EAR-8018798)*; 24 MONTHS $71,500

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

COE, ROBERT S; *PALEOMAGNETIC INVESTIGATION OF THE KODIAK ISLANDS AND THE NIXON FORK TERRANE, ALASKA (EAR-8008213 A01)*; 12 MONTHS $42,300

GARRISON, ROBERT E; *SEDIMENTOLOGY & ORIGIN OF UPPER CRETACEOUS PHOSPHORITES IN SOUTHERN ISRAEL (EAR-8009128)*; 24 MONTHS $35,000

LAPORTE, LEO F; *DOCTORAL DISSERTATION RESEARCH IN EARTH SCIENCES (EAR-8018358)*; 24 MONTHS $8,500

LAPORTE, LEO F; *DOCTORAL DISSERTATION RESEARCH IN EARTH SCIENCES (EAR-8025500)*; 12 MONTHS $8,000

COE, ROBERT S; *DETAILED BEHAVIOR OF THE COMPLETE FIELD VECTOR DURING A GEOMAGNETIC REVERSAL (EAR-8100395)*; 15 MONTHS $56,400

GILL, JAMES B; *VOLCANISM AND TECTONISM IN FIJI, INDONESIA, AND ALASKA (EAR-8106841)*; 12 MONTHS $60,000

UNIVERSITY OF SOUTHERN CALIFORNIA

TENG, TA-LIANG; *LATERAL INHOMOGENEITIES OF THE CRUST AND UPPER MANTLE IN THE EURASIAN AND PACIFIC PLATES (EAR-8025723)*; 12 MONTHS $47,000

SAMMIS, CHARLES G, AND OSBORNE, ROBERT H; *LABORATORY GENERATION AND CHARACTERIZATION OF GOUGE FORMED DURING FRACTURE OF GRANITIC ROCK (EAR-8025724)*; 12 MONTHS $45,000

SAMMIS, CHARLES G; *AN EXPERIMENTAL STUDY OF ANELASTICITY AND TRANSIENT CREEP IN SINGLE CRYSTAL SODIUM CHLORIDE (EAR-8108565)*; 12 MONTHS $34,400

COLORADO

COLORADO SCHOOL OF MINES

GEISSMAN, JOHN W; *PALEOMAGNETIC INVESTIGATIONS EQUIPMENT GRANT, MISCELLANEOUS PROJECTS (EAR-8107710)*; 12 MONTHS $24,900

COLORADO STATE UNIVERSITY

SCHUMM, STANLEY A; *GEOMORPHIC THRESHOLDS AND RIVER MORPHOLOGY (EAR-7727573 A01)*; 24 MONTHS $54,800

ETHRIDGE, FRANK G; *DEPOSITIONAL MODEL FOR A HOLOCENE MICROTIDAL TIDAL PASS-TIDAL DELTA SYSTEM: SAN LUIS PASS, TEXAS (EAR-8004127 A01)*; 12 MONTHS $32,500

UNIVERSITY OF COLORADO AT BOULDER

WARE, RANDOLPH H; *A STUDY OF TECTONOMAGNETIC METHODS AND INSTRUMENTS (EAR-7930094 A01)*; 12 MONTHS $40,000

ANDREWS, JOHN T; *QUATERNARY HISTORY OF THE NORTHEASTERN SECTOR OF THE LAURENTIDE ICE SHEET AND THE MID WISCONSIN SEA LEVEL PROBLEM (EAR-7926061 A01)*; 12 MONTHS $49,000

LARSON, EDWIN E; *DOCTORAL DISSERTATION RESEARCH IN GEOPHYSICS (EAR-8014168)*; 12 MONTHS $5,000

WEIR, STUART; *A STUDY OF ACOUSTIC EMISSION PRECURSORS ASSOCIATED WITH THE CYCLIC LOADING OF ROCK (EAR-8019495)*; 12 MONTHS $45,200

SMITH, MARTIN L; *NUTATION AND POLAR MOTION (EAR-8019693)*; 12 MONTHS $54,200

STERN, CHARLES R; *PETROCHEMICAL INVESTIGATION OF POST-PLEISTOCENE OROGENIC VOLCANISM IN THE SOUTHERNMOST (44 DEGREES - 52 DEGREES S) ANDES (EAR-8020791)*; 24 MONTHS $78,500

ANDREWS, JOHN T; *DOCTORAL DISSERTATION RESEARCH IN EARTH SCIENCES (EAR-8023454)*; 12 MONTHS $2,675

BRADLEY, WILLIAM C; *DOCTORAL DISSERTATION RESEARCH IN EARTH SCIENCES (EAR-8023718)*; 12 MONTHS $5,000

ANDREWS, JOHN T; *PURCHASE OF A SHALLOW WATER SEDIMENT PROFILING SYSTEM FOR RESEARCH INTO HOLOCENE LAKE AND MARINE ENVIRONMENTAL RECORDS (EAR-8108674)*; 12 MONTHS $17,000

CONNECTICUT

UNIVERSITY OF CONNECTICUT-MARINE SCIENCES INSTITUTE

WASLENCHUK, DENNIS G; *THE GEOCHEMISTRIES OF THE METALLOIDS ARSENIC, ANTIMONY, BISMUTH, GERMANIUM AND SELENIUM, IN U.S. RIVERS (EAR-8025505)*; 12 MONTHS $63,000

UNIVERSITY OF CONNECTICUT

PHILPOTTS, ANTHONY R; *ROLE OF LIQUID IMMISCIBILITY IN THE GENERATION OF MASSIFTYPE ANORTHOSITES AND ASSOCIATED ROCKS (EAR-8017059)*; 24 MONTHS $75,600

UNIVERSITY OF HARTFORD

STRIEFLER, MANFRED E; *HIGH PRESSURE ELASTIC PROPERTIES AND EQUATION OF STATE OF STISHOVITE (EAR-7926906 A01)*; 12 MONTHS $20,700

YALE UNIVERSITY-PEABODY MUSEUM OF NATURAL HISTORY

WAAGE, KARL M; *EQUIPMENT FOR ENERGY DISPERSIVE X-RAY ANALYSIS ON AN EXISTING MULTIUSER SCANNING ELECTRON MICROSCOPE (EAR-8025870)*; 12 MONTHS $38,800

YALE UNIVERSITY

THOMSON, KEITH S; *SYSTEMATICS OF TRIASSIC AND EARLY JURASSIC SEMIONOTIDAE OF EASTERN NORTH AMERICA (DEB-7921746 A01*)*; 12 MONTHS $10,000

BERNER, ROBERT A; *STUDIES OF CHEMICAL WEATHERING (EAR-8007815 A01)*; 18 MONTHS $74,300

OKAL, EMILE A; *SEISMOLOGICAL INVESTIGATIONS OF PROBLEMS IN GEODYNAMICS (EAR-8106106)*; 12 MONTHS $37,200

DISTRICT OF COLUMBIA

AMERICAN GEOPHYSICAL UNION

PRESNALL, DEAN C; *TRAVEL OF STUDENTS AND FOREIGN SCIENTISTS TO A CHAPMAN CONFERENCE ON GENERATION OF THE OCEANIC LITHOSPHERE (EAR-8018347*);* 6 MONTHS $4,000

CARNEGIE INSTITUTION OF WASHINGTON

CHAYES, FELIX; *GENERATION AND APPLICATION OF A RETROSPECTIVE WORLD DATA BASE FOR IGNEOUS PETROLOGY (EAR-7808221 A03);* 24 MONTHS $49,900

FRANTZ, JOHN D; *COMPLEXING AND THERMODYNAMIC PROPERTIES OF MANGANESE IN HYDROTHERMAL FLUIDS (EAR-8008798);* 24 MONTHS $37,800

FRANTZ, JOHN D; *COMPLEXING AND THERMODYNAMIC PROPERTIES OF MANGANESE IN HYDROTHERMAL FLUIDS (EAR-8008798 A01);* $6,000

BELL, PETER M, AND MAO, HO-KWANG; *EXPERIMENTAL STUDY OF THE EARTH'S MANTLE AND MANTLE-CORE BOUNDARY (EAR-8008304 A01);* 12 MONTHS $62,600

JAMES, DAVID E, AND ECHEVERRIA, LINA M; *GEOCHEMICAL STUDIES OF KOMATIITES AND LATE CENOZOIC CALCALKALINE VOLCANIC ROCKS IN THE ANDES OF SOUTHWEST COLOMBIA (EAR-8018497);* 24 MONTHS $77,000

ESTEP, MARILYN F; *EQUIPMENT FOR UPGRADING AN ISOTOPE RATIO MASS SPECTROMETER (EAR-8108065);* 12 MONTHS $20,000

SACKS, I S, AND LINDE, ALAN T; *STRUCTURE OF SUBDUCTION ZONES AND EARTHQUAKE SOURCE PARAMETERS (EAR-8108783);* 24 MONTHS $30,000

CATHOLIC UNIVERSITY OF AMERICA

MCCOY, JOHN J; *PARABOLIC PROPAGATION MODELS FOR GEOPHYSICAL APPLICATIONS (EAR-8025367);* 12 MONTHS $41,100

GEORGE WASHINGTON UNIVERSITY

STEPHENS, GEORGE C; *TACONIC EVENTS IN THE CENTRAL APPALACHIANS AS RECORDED BY THE MIDDLE ORDOVICIAN MARTINSBURG FORMATION (EAR-8023965);* 12 MONTHS $24,342

HOWARD UNIVERSITY-COLLEGE OF MEDICINE

DOMNING, DARYL P; *TERTIARY SIRENIAN SYSTEMATICS AND PALEONTOLOGY IN THE WEST ATLANTIC AND CARIBBEAN (DEB-8020265*);* 24 MONTHS $10,000

HOWARD UNIVERSITY

HUSSAIN, S T; *CENOZOIC MAMMALS AND BIOSTRATIGRAPHY OF PAKISTAN (DEB-8003601*);* 24 MONTHS $20,000

NATIONAL ACADEMY OF SCIENCES

PETRIE, WILLIAM L; *SUPPORT OF THE U.S. NATIONAL COMMITTEE FOR GEOCHEMISTRY (29R-7900678 A02),* 1½ MONTHS $10,000

HART, PEMBROKE J; *SUPPORT OF THE U.S. GEODYNAMICS COMMITTEE (EAR-7901089 A06);* 12 MONTHS $29,500

HART, PEMBROKE J; *SUPPORT OF THE U.S. GEODYNAMICS COMMITTEE (EAR-7901089 A08*);* $30,470

HART, PEMBROKE J; *STUDIES IN GEOPHYSICS (EAR-7902458 A09*);* 12 MONTHS $14,500

HART, PEMBROKE J; *SUPPORT OF THE GEOPHYSICS RESEARCH BOARD (GRB) AND THE COMMITTEE ON SOLAR-TERRESTRIAL RESEARCH (CSTR) (09M-7914131 A03*);* 12 MONTHS $5,500

KATSOUROS, MARY HOPE; *SUPPORT OF THE OCEAN POLICY COMMITTEE (29E-7923935 A02);* 12 MONTHS $55,000

HART, PEMBROKE J; *SUPPORT OF THE ACTIVITIES OF THE CONTINENTAL SCIENTIFIC DRILLING COMMITTEE (29R-8014913 A01);* 12 MONTHS $33,000

BERG, JOSEPH W; *SUPPORT OF THE GEOLOGICAL SCIENCES BOARD (29R-8112092);* 12 MONTHS $25,000

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

BOLLER, JACK W; *SUPPORT OF THE U.S. NATIONAL COMMITTEE FOR THE ENGINEERING COMMITTEE ON OCEANIC RESOURCES (ECOR) (OCE-7826185 A02);* 12 MONTHS $15,000

KASPER, RAPHAEL; *PARTIAL SUPPORT OF THE INTERNATIONAL ENVIRONMENTAL PROGRAMS COMMITTEE (29T-7826469 A05*);* 12 MONTHS $6,000

HART, PEMBROKE J; *SUPPORT OF THE U.S. GEODYNAMICS COMMITTEE (EAR-7901089 A05*);* $8,845

BERG, JOSEPH W; *STUDY TO IMPROVE THE INTERACTIONS BETWEEN THE GEOLOGICAL AND MATERIALS SCIENCES (EAR-7904525 A01);* 12 MONTHS $9,600

BERG, JOSEPH W; *PARTIAL SUPPORT OF THE COMMITTEE ON SEISMOLOGY (EAR-8025336);* 24 MONTHS $35,000

FLORIDA

FLORIDA STATE UNIVERSITY

RAGLAND, PAUL C; *HISTORY OF CRUSTAL FRACTURING AND EMPLACEMENT OF MULTIPLYORIENTED DIABASE DIKE SETS IN THE PIEDMONT OF THE CAROLINAS AND VIRGINIA (EAR-8018507);* 24 MONTHS $40,181

WISE, SHERWOOD W; *CALCAREOUS NANNOPLANKTON PALEOBIOGEOGRAPHY OF THE CRETACEOUS GREENHORN SEA (EAR-8025489);* 24 MONTHS $40,484

SOMMER, MICHAEL A; *COLLABORATIVE RESEARCH ON ROLE OF VOLATILES IN LESSER ANTILLES ISLAND ARC MAGMAS (EAR-8026736);* 24 MONTHS $20,000

LOPER, DAVID E; *A STUDY OF THE NATURE AND CONSEQUENCES OF A DENDRITIC INNER CORE BOUNDARY IN THE EARTH (EAR-8103442);* 12 MONTHS $50,000

TULL, JAMES F; *TECTONIC DEVELOP OF THE TALLADEGA SLATE BELT, AL.: INVESTIGATION OF THE STRATIGRAPH & STRUCTUR HIST OF THE CHANGE FROM A TRAILING TO A CONVERG CONTINENT MARGIN IN THE S. APPALAC (EAR-8109056);* 12 MONTHS $31,969

UNIVERSITY OF FLORIDA-FLORIDA STATE MUSEUM

DEEVEY, EDWARD S; *LATE PLEISTOCENE SEDIMENTOLOGY AND PALEOECOLOGY OF PETEN LAKE DISTRICT, GUATEMALA (EAR-7926390 A01*);* 14 MONTHS $34,227

UNIVERSITY OF MIAMI-SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

WANLESS, HAROLD R; *PALEOECOLOGY AND DIAGENESIS OF THE PLIOCENE PINECREST REEF, SOUTHWEST FLORIDA - A LINK BETWEEN THE TERTIARY AND RECENT (EAR-7921790 A01);* 12 MONTHS $25,032

GINSBURG, ROBERT N; *REGIONAL SYNTHESIS OF PLIO-PLEISTOCENE CARBONATES, BAHAMAS ARCHIPELAGO (EAR-7927212 A01*);* $1,029

GINSBURG, ROBERT N; *REGIONAL SYNTHESIS OF PLIO-PLEISTOCENE CARBONATES, BAHAMAS ARCHIPELAGO (EAR-7927212 A02);* 12 MONTHS $58,286

GINSBURG, ROBERT N; *FOUNDATIONS OF LAGOON REEFS IN BELIZE (BRITISH HONDURAS) (EAR-8025886*);* 12 MONTHS $8,100

UNIVERSITY OF SOUTH FLORIDA-MARINE SCIENCE INSTITUTE

BELKNAP, DANIEL F; *AMINO ACID RACEMIZATION AS A TEST OF RADIOCARBON DATES SUPPORTING A 'MID-WISCONSIN HIGH SEA STAND ON THE ATLANTIC COASTAL PLAIN (EAR-8108603);* 12 MONTHS $40,594

UNIVERSITY OF SOUTH FLORIDA

GARRELS, ROBERT M; *BEHAVIOR OF MINERAL SOLID SOLUTIONS IN LOW TEMPERATURE AQUEOUS SYSTEMS (EAR-8107736);* 12 MONTHS $32,800

FRANCE

INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION

RUIVO, MARIA; *FACILITATION OF INTERNATIONAL MARINE RESEARCH (OCE-8023496);* 18 MONTHS $50,000

GEORGIA

GEORGIA INSTITUTE OF TECHNOLGY MAIN CAMPUS

MARESCHAL, JEAN-CLAU; *A MAGNETOTELLURIC SURVEY IN THE SOUTHERN APPALACHIANS (EAR-7925395 A01);* 12 MONTHS $26,671

DAINTY, ANTON M; *GRAVITY SURVEY IN THE VICINITY OF PROPOSED COCORP TRAVERSE ACROSS THE BREVARD ZONE NEAR GAINESVILLE, GEORGIA (EAR-8019717);* 18 MONTHS $37,100

GEORGIA SOUTHERN COLLEGE

BISHOP, GALE A; *SYSTEMATICS, GEOLOGY AND PALEOGEOGRAPHY OF CRETACEOUS DECAPODA (DEB-8011570*);* 24 MONTHS $10,000

SKIDAWAY INSTITUTE OF OCEANOGRAPHY

HOWARD, JAMES D; *DEPOSITIONAL MODEL OF THE SPRING CANYON MEMBER OF THE BLACKHAWK FORMATION OF EAST-CENTRAL UTAH: A LATE CRETACEOUS, REGRESSIVE, CLASTIC SHORELINE SEQUENCE (EAR-8107695);* 12 MONTHS $20,000

UNIVERSITY OF GEORGIA

LEDBETTER, MICHAEL T, AND ROSE, WILLIAM I; *THE DURATION, AGE CORRELATION AND DISTRIBUTION OF CENTRAL AMERICAN EXPLOSIVE VOLCANIC EVENTS (EAR-7930076 A01);* 12 MONTHS $42,100

DALLMEYER, R D; *AN INVESTIGATION OF THE EXTENT AND TIMING OF LATE PALEOZOIC TECTONOTHERMAL ACTIVITY IN THE PIEDMONT OF CENTRAL SOUTH CAROLINA (EAR-8020469);* 24 MONTHS $52,711

WENNER, DAVID B, WHITNEY, JAMES A, AND STORMER, JOHN C; *AN INTEGRATED INVESTIGATION OF POST-METAMORPHIC PLUTONS OF THE SOUTHERN APPALACHIANS INVOLVING PETROLOGIC, STABLE ISOTOPIC, AND TRACE AND MAJOR ELEMENT GEOCHEMICAL STUDIES (EAR-8025131);* 12 MONTHS $53,000

ELLWOOD, BROOKS B, AND CIESIELSKI, PAUL F; *ANALYSIS OF THE VARIABILITY OF PALEOMAGNETIC MEASUREMENTS OF POST-DEPOSITIONALLY HEATED LIMESTONE (EAR-8107670);* 12 MONTHS $14,800

HAWAII

UNIVERSITY OF HAWAII-MANOA

MING, LI-CHUNG; *SINGLE-CRYSTAL ELASTIC MODULI OF HIGH-PRESSURE MANTLE PHASES, USING BRILLOUIN SCATTERING (EAR-8007735 A01);* $5,000

SCHLANGER, SEYMOUR O; *PALEOENVIRONMENTAL ANALYSIS OF STRATA DEPOSITED DURING THE CENOMANIAN-TURONIAN OCEANIC ANOXIC EVENT (EAR-8008281 A01);* $34,100

PHILPOTTS, JOHN A; *PARTITIONING OF ELEMENTS BETWEEN MINERALS AND MELTS (EAR-8018783);* 12 MONTHS $35,000

MING, LI-CHUNG; *PHASE TRANSFORMATIONS AND ELASTICITY OF MANTLE PHASES AT HIGH PRESSURE AND TEMPERATURE (EAR-8020471);* 12 MONTHS $50,000

SHARMA, SHIV K; *STRUCTURAL STUDIES OF SILICATE GLASSES BY RAMAN SPECTROSCOPY AND TRIMETHYLSILYLATION (TMS)-GAS CHROMATOGRAPHY (EAR-8026091);* 12 MONTHS $58,300

GARCIA, MICHAEL O; *COLLABORATIVE RESEARCH ON: PETROLOGICAL AND GEOCHEMICAL STUDY OF THE EVOLUTION OF MAUNA KEA VOLCANO, HAWAII (EAR-8026787)*; 24 MONTHS $22,800

MING, LI-CHUNG; *LABORATORY STUDY OF SEISMIC WAVE ATTENUATION IN LOWER CRUSTAL AND UPPER MANTLE MATERIALS (EAR-8108601)*; 12 MONTHS $50,000

ILLINOIS

FIELD MUSEUM OF NATURAL HISTORY

MARSHALL, LARRY G; *GEOCHRONOLOGY OF MAMMAL-BEARING CENOZOIC OF ARGENTINA (EAR-7909515 A02)*; 12 MONTHS $47,200

ILLINOIS STATE MUSEUM

LEARY, RICHARD L; *PALEOECOLOGY, SYSTEMATICS, AND EVOLUTION OF EARLY PENNSYLVANIAN COMPRESSION FLORAS IN THE ILLINOIS BASIN (EAR-8108638)*; 24 MONTHS $34,720

NORTHWESTERN UNIVERSITY

MACKENZIE, FRED T; *GLOBAL GEOCHEMICAL CYCLES OF THE ELEMENTS (EAR-7612279 A06*)*; $5,500

SLOSS, L L; *APPLICATION OF STRATIGRAPHIC DATA TO STUDY OF THE SUBSIDENCE OF SEDIMENTARY BASINS (EAR-7813644 A01)*; 24 MONTHS $54,995

SPEED, ROBERT C; *GEOLOGIC AND PALEOMAGNETIC STUDIES OF SONOMIA AND THE TECTONIC HISTORY OF WESTERN NORTH AMERICA (EAR-7911150 A01)*; $15,205

GORDON, RICHARD G; *PALEOMAGNETIC STUDIES OF ANCIENT PLATE VELOCITIES (EAR-8018817)*; 24 MONTHS $57,000

SPEED, ROBERT C; *CORRIDOR SYNTHESIS, NORTH AMERICAN CONTINENT-OCEAN TRANSECTS PROGRAM (EAR-8019316)*; 24 MONTHS $114,000

BISHOP, FINLEY C; *MINERAL EQUILIBRIA AT HIGH TEMPERATURES AND PRESSURES (EAR-8108589)*; 24 MONTHS $91,100

JURDY, DONNA M; *REFLECTIVITY ANALYSIS OF COCORP DATA (EAR-8108620)*; 24 MONTHS $39,700

UNIVERSITY OF CHICAGO

WYLLIE, PETER J; *PETROGENETIC LINKS BETWEEN CARBONATITES AND KIMBERLITES AND EXPERIMENTAL STUDIES ON THE ORIGIN OF PLUTONIC IGNEOUS ROCK SERIES (EAR-7620413 A05)*; $8,000

GOLDSMITH, JULIAN R; *THE CRYSTAL CHEMISTRY OF SOME SILICATES AND CARBONATES (EAR-7813675 A03)*; 12 MONTHS $77,200

NEWTON, ROBERT C; *EXPERIMENTAL GEOCHEMISTRY OF ROCK-FORMING MINERALS AT HIGH TEMPERATURES AND PRESSURES (EAR-7815932 A02)*; 12 MONTHS $115,000

CLAYTON, ROBERT N; *STABLE ISOTOPE GEOCHEMISTRY (EAR-7823680 A02)*; 12 MONTHS $145,500

MOORE, PAUL B; *CRYSTAL CHEMISTRY AND STRUCTURE SYSTEMATICS OF MINERALS AND RELATED INORGANIC COMPOUNDS (EAR-7918259 A01)*; 12 MONTHS $113,300

ANDERSON, ALFRED T; *ROLE OF GASES IN SUBDUCTION ZONE VOLCANISM (EAR-7926485 A01)*; 12 MONTHS $48,000

SMITH, JOSEPH V; *ION MICROPROBE ANALYSES OF FELDSPARS AND UPPER-MANTLE MINERALS (EAR-8024138)*; 12 MONTHS $115,500

WYLLIE, PETER J; *PETROGENETIC LINKS BETWEEN CARBONATITES AND KIMBERLITES (EAR-8108599)*; 12 MONTHS $55,000

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

SMITH, NORMAN D; *STUDIES OF BRAIDING AND BED-LOAD TRANSPORT IN GRAVEL STREAMS (EAR-7713131 A02)*; 6 MONTHS $11,570

GUGGENHEIM, STEPHEN J; *STRUCTURAL ASPECTS OF LAYER SILICATES (EAR-8018222)*; 24 MONTHS $30,100

UNIVERSITY OF ILLINOIS AT URBANA

PHILLIPS, TOMMY L; *QUANTITATIVE ANALYSIS OF MIDDLE PENNSYLVANIAN COAL-SWAMP VEGETATION IN RELATION TO COAL IN MIDCONTINENT UNITED STATES (EAR-7812954 A01*)*; 24 MONTHS $87,312

GRAF, DONALD L, AND HOWER, JOHN; *INTERLAYER WATER LOSS FROM COMMON EXPANDABLE CLAY MINERALS UNDER DIAGENETIC CONDITIONS (EAR-8018666)*; 12 MONTHS $27,300

HSUI, ALBERT T; *SHALLOW THERMAL STRUCTURE AT PLATE SUBDUCTION ZONES AND THE GENERATION OF ISLAND ARC MAGMATISM (EAR-8018786)*; 12 MONTHS $35,000

THORN, COLIN E; *'THE SPATIAL AND TEMPORAL VALIDITY OF GEOMORPHIC DATA' GEOMORPHOLOGY SYMPOSIUM; UNIVERSITY OF ILLINOIS AT URBANA; SEPTEMBER 24-26, 1981 (EAR-8019594)*; 12 MONTHS $2,500

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

ORTOLEVA, PETER J, AND MERINO, ENRIQUE; *KINETIC THEORY OF METAMORPHIC LAYERING (EAR-8018330)*; 12 MONTHS $24,000

KLEIN, CORNELIS; *COMPARATIVE STUDIES OF SEVERAL PRECAMBRIAN IRON-FORMATIONS AND SOME MANGANESE FORMATIONS (EAR-8020377)*; 24 MONTHS $121,100

RIPLEY, EDWARD M; *TRACE METAL AND STABLE ISOTOPIC STUDIES OF THE MINNAMAX AND DUNKA ROAD CU-NI DEPOSITS, DULUTH COMPLEX, MINNESOTA (EAR-8108536)*; 12 MONTHS $20,400

PURDUE UNIVERSITY

MEYER, HENRY O A; *MECHANISMS OF EXSOLUTION AND COARSENING KINETICS IN CLINOPYROXENES (EAR-8001483 A01)*; 12 MONTHS $36,200

CROUGH, S THOMAS; *UPPER MANTLE STUDIES: PLATEAUS, HOT-SPOTS, AND THE LITHOSPHERE (EAR-8021196)*; 12 MONTHS $33,000

CROUGH, S THOMAS; *HOTSPOTS, KIMBERLITES AND ABSOLUTE PLATE MOTIONS (EAR-8106123)*; 12 MONTHS $25,000

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

RICHARDSON, CATHERINE K; *THE CHEMICAL EVOLUTION OF FLUIDS IN THE CAVE-IN-ROCK DISTRICT, ILLINOIS (EAR-7815190 A02)*; 12 MONTHS $23,200

UNIVERSITY OF IOWA

FOSTER, ANN B; *MORPHOLOGICAL TRENDS WITHIN THE PHENOTYPICALLY PLASTIC REEF-CORAL GENUS MONTASTRAEA (DEB-8021318*)*; 24 MONTHS $10,000

KANSAS

KANSAS STATE UNIVERSITY

CLARK, GEORGE R; *GROWTH LINE ANALYSIS AND PALEO-POPULATION DYNAMICS (EAR-8019553)*; 18 MONTHS $40,133

UNIVERSITY OF KANSAS MAIN CAMPUS

VAN SCHMUS, WILLIAM R; *GEOCHRONOLOGY AND GEOCHEMISTRY OF EARLY PROTEROZOIC MOBILE BELTS (EAR-7919544 A01)*; 12 MONTHS $54,300

VAN SCHMUS, WILLIAM R; *GEOCHRONOLOGY AND GEOCHEMISTRY OF EARLY PROTEROZOIC MOBILE BELTS (EAR-7919544 A02)*; $5,900

ROBISON, RICHARD A; *SECOND INTERNATIOONAL SYMPOSIUM ON THE CAMBRIAN SYSTEM, GOLDEN, COLORADO, AUGUST 9-13, 1981 (EAR-8006831)*; 12 MONTHS $8,680

ROBISON, RICHARD A; *AGNOSTOID BIOSTRATIGRAPHY OF A POTENTIAL CAMBRIAN SERIES (EAR-8024066)*; 12 MONTHS $32,677

BICKFORD, MARION E; *PUBLICATION OF GEOLOGICAL MAP OF PORTIONS OF THE ST. FRANCOIS MOUNTAINS, MISSOURI (EAR-8024367)*; 12 MONTHS $2,200

BICKFORD, MARION E; *GEOCHRONOLOGICAL AND GEOCHEMICAL STUDIES OF PROTEROZOIC VOLCANIC SEQUENCES AND PLUTONIC ROCKS IN CENTRAL COLORADO (EAR-8025357)*; 16 MONTHS $56,900

SORENSON, CURTIS J, AND BUTLER, DAVID R; *DOCTORAL DISSERTATION RESEARCH IN EARTH SCIENCES (EAR-8112516)*; 6 MONTHS $3,200

KENTUCKY

EASTERN KENTUCKY UNIVERSITY

VANARSDALE, ROY; *INVESTIGATION OF POSSIBLE LATE TERTIARY AND QUATERNARY AGE MOVEMENT ALONG THE KENTUCKY RIVER FAULT ZONE IN EAST-CENTRAL KENTUCKY (EAR-8025893)*; 36 MONTHS $29,913

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

LOWE, DONALD R; *GEOLOGIC EVOLUTION OF THE TERRABA TROUGH FOREARC BASIN, COSTA RICA AND WESTERN PANAMA (EAR-7822754 A01)*; $3,310

BYERLY, GARY R; *GEOLOGIC STUDIES OF ARCHEAN ROCKS OF THE BARBERTON MOUNTAINLAND, SOUTH AFRICA (EAR-7919907 A01)*; 12 MONTHS $33,645

LOWE, DONALD R; *SEDIMENTOLOGICAL AND PALEOENVIRONMENTAL CONTROLS ON THE MORPHOLOGY AND DISTRIBUTION OF CARBONACEOUS MATTER IN ARCHEAN CHERT, SOUTH AFRICA (EAR-7919908 A01)*; 12 MONTHS $24,064

DOKKA, ROY K; *STRUCTURE OF A THIN-SKINNED EXTENSIONAL COMPLEX, CENTRAL MOJAVE DESERT, CALIFORNIA (EAR-8107534)*; 12 MONTHS $35,414

MARYLAND

ADVANCED TECHNOLOGY & RESEARCH INC

CHEN, JIGIEN; *APPLICATION OF THE RANDOM DECREMENT TECHNIQUE TO IMPROVE THE EARTHQUAKE SURVIVABILITY OF STRUCTURES ON SOIL FOUNDATION (CEE-8114558*)*; 24 MONTHS $162,060

JOHNS HOPKINS UNIVERSITY

ELLIOTT, DAVID W; *MECHANISMS ASSOCIATED WITH THE EMPLACEMENT OF THRUST SHEETS (EAR-7723209 A03)*; $19,585

HARDIE, LAWRENCE A; *CARBONATE TIDAL FLAT DEPOSITS IN CAMBRO-ORDOVICIAN ROCKS OF CENTRAL APPALACHIAN MOUNTAINS (EAR-7809156 A01)*; 24 MONTHS $47,832

EUGSTER, HANS P; *GREAT SALT LAKE, UTAH: GEOCHEMISTRY AND SEDIMENTOLOGY (EAR-7903875 A01)*; 12 MONTHS $37,900

MARSH, BRUCE D; *DYNAMIC IGNEOUS PETROLOGY (EAR-8005109 A01)*; 18 MONTHS $45,000

FISHER, GEORGE W; *DYNAMICS OF REGIONAL METAMORPHISM IN EASTERN VERMONT (EAR-8009243)*; 12 MONTHS $45,900

EUGSTER, HANS P; *GEOCHEMISTRY OF EVAPORITES (EAR-8018788)*; 24 MONTHS $66,200

VEBLEN, DAVID R; *MICROSTRUCTURES AND REACTIONS IN ROCK-FORMING SILICATES (EAR-8115790*)*; 12 MONTHS $67,900

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION-ENVIRONMENTAL DATA SERVICE

MEYERS, HERBERT; *DATA MANAGEMENT SERVICES FOR THE INTERNATIONAL DECADE OF OCEAN EXPLORATION (IDOE) (OCE-8022364);* 8 MONTHS $20,000

MEYERS, HERBERT; *DATA MANAGEMENT SERVICES FOR THE INTERNATIONAL DECADE OF OCEAN EXPLORATION (IDOE) (OCE-8022364 A01);* $5,506

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

MURRAY, THOMAS E, AND ALLEN, SCOTT; *IMPACT OF THE LAW OF THE SEA NEGOTIATIONS ON OCEAN SCIENCE RESEARCH (OCE-8019608);* 6 MONTHS $5,000

UNIVERSITY OF MARYLAND, COLLEGE PARK

TOSSELL, JOHN A; *QUANTUM MINERALOGICAL STUDIES OF X-RAY SPECTRA, VALENCE ELECTRON DENSITIES AND COHESIVE PROPERTIES OF OXIDES AND SILICATES (EAR-7801780 A01);* 24 MONTHS $64,500

ADLER, ISIDORE; *THE APPLICATION OF X-RAY PHOTOELECTRON AND AUGER SPECTROSCOPY TO SOME SELECTED GEOCHEMICAL PROBLEMS (EAR-7816421 A03);* 12 MONTHS $65,200

MASSACHUSETTS

BOSTON UNIVERSITY

MURRAY, DANIEL P; *AN INVESTIGATION OF THE NATURE, EXTENT, AND TIMING OF THE ALLEGHANIAN METAMORPHISM IN SOUTHERN NEW ENGLAND (EAR-8103228);* 10 MONTHS $16,101

GOLUBIC, STJEPKO, CAMERON, BARRY W, AND CAMPBELL, SUSAN E; *FOSSIL ENDOLITHIC ALGAE AND FUNGI: DEPTH DISTRIBUTION, PALEOECOLOGY AND EVOLUTION (EAR-8107686*);* 12 MONTHS $15,000

HARVARD UNIVERSITY

SIEVER, RAYMOND; *PETROLOGY AND GEOCHEMISTRY OF FINE-GRAINED SILICEOUS SEDIMENTS (EAR-7904364 A02);* 12 MONTHS $28,100

BURNHAM, CHARLES W; *CRYSTAL CHEMISTRY OF ROCK-FORMING MINERALS (EAR-7920095 A01);* 12 MONTHS $77,100

HOLLAND, HEINRICH D; *COLLABORATIVE EFFORT: MIT-BROWN-HARVARD REGIONAL ION MICROPROBE FACILITY (EAR-7921356 A01);* 12 MONTHS $38,600

HAYS, JAMES F; *EXPERIMENTAL PETROLOGY OF LUNAR AND PLANETARY IGNEOUS ROCKS (EAR-7923977 A01);* 12 MONTHS $92,500

GORDON, ROY G; *THEORETICAL PREDICTION OF PROPERTIES OF MINERALS AT HIGH PRESSURES AND TEMPERATURES (EAR-8006535 A01);* 12 MONTHS $53,600

JEANLOZ, RAYMOND; *EXPERIMENTAL DETERMINATION OF THERMAL EQUATIONS OF STATE AT HIGH PRESSURES (EAR-8018793);* 12 MONTHS $47,700

WOODHOUSE, JOHN H; *THEORETICAL SEISMIC CALCULATIONS WITH APPLICATIONS TO THE STUDY OF EARTH STRUCTURE AND THE SEISMIC SOURCE (EAR-8019554);* 12 MONTHS $50,000

DZIEWONSKI, ADAM M; *DETERMINATION OF EARTHQUAKE SOURCE PARAMETERS FROM WAVE-FORM DATA FOR STUDIES OF GLOBAL AND REGIONAL SEISMICITY (EAR-8026441);* 12 MONTHS $80,000

ENGLAND, P C; *NUMERICAL INVESTIGATIONS OF THE DEFORMATION OF THE CONTINENTS (EAR-8107659);* 24 MONTHS $60,000

WOODHOUSE, JOHN H; *AN INVESTIGATION OF TSUNAMI GENERATION AND PROPAGATION ON A SPHERICAL EARTH (EAR-8108934);* 12 MONTHS $40,000

O'CONNELL, R J; *STUDIES OF PLATE MOTION, MANTLE CONVECTION AND DIFFERENTIATION (EAR-8109464);* 12 MONTHS $45,000

GOULD, STEPHEN J; *DOCTORAL DISSERTATION RESEARCH IN EARTH SCIENCES (EAR-8115100);* 24 MONTHS $2,690

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

HART, STANLEY R; *GEOCHEMICAL EVOLUTION OF THE MANTLE (EAR-7803542 A03);* 12 MONTHS $85,900

SOLOMON, SEAN C; *THE GLOBAL STATE OF STRESS IN THE LITHOSPHERE AND THE FORCES DRIVING PLATES (EAR-7812936 A01);* 24 MONTHS $80,000

FREY, FREDERICK; *TRACE ELEMENT DISTRIBUTION IN IGNEOUS GEOLOGIC SYSTEMS (EAR-7823423 A02);* 12 MONTHS $82,300

LEWIS, JOHN S, AND COX, LARRY P; *NUMERICAL SIMULATION OF THE FINAL STAGES OF TERRESTRIAL PLANET FORMATION (EAR-7904169 A01);* 12 MONTHS $51,500

GROVE, TIMOTHY L; *PHASE EQUILIBRIA AND KINETIC INVESTIGATIONS OF EXTRUSIVE IGNEOUS ROCKS (EAR-7919762 A01);* 12 MONTHS $47,600

SHAPIRO, IRWIN I, AND COUNSELMAN, CHARLES C; *GEOPHYSICAL APPLICATIONS OF ATOMIC CLOCK RADIO INTERFEROMETRY (EAR-7920253 A01);* 12 MONTHS $159,000

HART, STANLEY R, AND SHIMIZU, NOBUMICHI; *GEOCHEMICAL RESEARCH USING THE ION MICROPROBE (EAR-7922049 A01);* 12 MONTHS $82,100

BURCHFIEL, BURRELL C; *LOWER CRUSTAL RESPONSE TO COLLISIONAL TECTONICS, NORTH NORWAY (EAR-7926347 A01);* 12 MONTHS $42,827

HART, STANLEY R, AND SHIMIZU, NOBUMICHI; *COLLABORATIVE EFFORT: MIT-BROWN-HARVARD REGIONAL ION MICROPROBE FACILITY (EAR-8006642 A01);* 12 MONTHS $146,900

BRACE, WILLIAM F; *ROLE OF A SECOND PHASE IN THE RECRYSTALLIZATION OF ROCKS (EAR-8008284 A02);* 12 MONTHS $72,300

BURNS, ROGER G; *MOSSBAUER AND ELECTRONIC SPECTRA OF MIXED-VALENCE IRON-BEARING MINERALS (EAR-8016163);* 12 MONTHS $63,900

SOLOMON, SEAN C; *COLLABORATIVE RESEARCH: A MICROEARTHQUAKE SURVEY ON THE MID-ATLANTIC RIDGE (EAR-8018193*);* 12 MONTHS $26,750

AKI, KEIITI; *STUDY OF THE MECHANISM OF TSUNAMIGENIC EARTHQUAKES USING TIDE-GAUGE RECORDS (EAR-8018351);* 12 MONTHS $35,700

WALSH, JOSEPH B; *A THEORETICAL ANALYSIS OF A TECHNIQUE FOR MEASURING TECTONIC STRESSES (EAR-8018493);* 12 MONTHS $19,200

WALSH, JOSEPH B; *STRAIN DEPENDENCE OF ELASTIC AND INELASTIC PROPERTIES OF ROCK (EAR-8018496);* 24 MONTHS $62,100

MADDEN, THEODORE R; *MULTIPLE SCALE METHODS AND CRITICAL PHENOMENA IN ROCK PHYSICS (EAR-8018504);* 24 MONTHS $82,200

MOLNAR, PETER; *A STUDY OF INTRACONTINENTAL INTERMEDIATE DEPTH (SUB CRUSTAL) EARTHQUAKES (EAR-8018705);* 12 MONTHS $35,000

HART, STANLEY R; *GEOCHEMISTRY AND PETROLOGY OF INDONESIAN ARC MAGMAS (EAR-8024041);* 12 MONTHS $43,000

SCLATER, JOHN G; *HEAT FLOW AND TECTONICS OF THE WESTERN MEDITERRANEAN AND SOUTHERN EUROPE (OCE-8024287*);* 12 MONTHS $25,000

FREY, FREDERICK A; *ACQUISITION OF COMPUTER-BASED NEUTRON ACTIVATION SYSTEM (EAR-8025275*);* 12 MONTHS $50,000

BRACE, WILLIAM F; *LABORATORY MEASUREMENT OF FRACTURE ENERGY UNDER CRUSTAL CONDITIONS (EAR-8025369);* 12 MONTHS $62,500

SIMMONS, GENE; *THE FIRST THOUSAND FEET OF NEW ENGLAND CRUST (EAR-8025873);* 12 MONTHS $50,000

MOLNAR, PETER, AND BURCHFIEL, BURRELL C; *NEOTECTONIC STUDY OF THE XIANSHUIHE FAULT, CHINA (EAR-8026460);* 12 MONTHS $50,000

FREY, FREDERICK; *COLLABORATIVE RESEARCH ON: PETROLOGICAL AND GEOCHEMICAL STUDY OF EVOLUTION OF MAUNA KEA VOLCANO, HAWAII (EAR-8100190);* 24 MONTHS $72,600

HART, STANLEY R, AND PADOVANI, ELAINE R; *GEOCHEMICAL STUDIES OF LOWER CRUSTAL XENOLITHS FROM KILBOURNE HOLE, NEW MEXICO (EAR-8108570);* 12 MONTHS $34,500

SPEAR, FRANK S; *PETROLOGIC INVESTIGATION OF THE AMMONOOSUC AND POST POND VOLCANICS, NEW HAMPSHIRE: A KEY TO THE REGIONAL TECTONICS OF WEST-CENTRAL NEW ENGLAND (EAR-8108617);* 12 MONTHS $60,000

UHLMANN, DONALD R; *KINETIC PROCESSES IN GEOLOGIC MATERIALS (EAR-8109595);* 12 MONTHS $73,900

UNIVERSITY OF MASSACHUSETTS, AMHERST

RHODES, JOHN M, MORSE, STEARNS A, AND HAGGERTY, STEPHEN E; *ANALYTICAL FACILITY FOR GEOCHEMISTRY (EAR-7819892 A02);* 12 MONTHS $79,600

BROWN, LAURIE L; *PALEOMAGNETIC STUDIES OF INTRUSIVE ROCKS IN NORTH CAROLINA AND THE POSITION OF THE PIEDMONT IN THE PALEOZOIC (EAR-7910848 A01);* 18 MONTHS $28,600

MORSE, STEARNS A; *MANTLE AND CRUSTAL EVOLUTION AS REFLECTED IN THE ANORTHOSITIC NAIN COMPLEX, LABRADOR (EAR-8011385 A01);* 12 MONTHS $58,000

WOODS HOLE OCEANOGRAPHIC INSTITUTION

SCHELTEMA, RUDOLF S; *IMPLICATIONS OF PELAGIC INVERTEBRATE-LARVAE FOR ZOOGEOGRAPHY AND EVOLUTION IN THE PRESENT AND GEOLOGIC PAST (EAR-7926381 A01*);* $24,400

PURDY, G M; *COLLABORATIVE RESEARCH: A MICROEARTHQUAKE SURVEY ON THE MID-ATLANTIC RIDGE (EAR-8018805*);* 12 MONTHS $18,950

KARSON, JEFFREY A; *GEOLOGICAL, PETROLOGICAL AND GEOCHEMICAL STUDY OF THE OPHIOLITIC ROCKS OF THE BAY OF ISLANDS REGION OF WESTERN NEWFOUNDLAND (EAR-8026445);* 12 MONTHS $51,700

MICHIGAN

MICHIGAN STATE UNIVERSITY

SIBLEY, DUNCAN F; *THE ORIGIN OF XENOTOPIC DOLOMITE TEXTURE (EAR-8023736);* 18 MONTHS $33,972

FUJITA, KAZUYA; *STRUCTURE AND SEISMICITY OF THE CENTRAL ALEUTIANS (EAR-8025267);* 24 MONTHS $54,800

UNIVERSITY OF MICHIGAN-ANN ARBOR

KESLER, STEPHEN E; *GEOCHEMISTRY AND GEOCHRONOLOGY OF W-S N-S B-H G-F MINERALIZATION IN NORTHERN MEXICO (EAR-7904894 A02);* 12 MONTHS $39,500

ESSENE, ERIC J, AND WESTRUM, EDGAR F; *THERMODYNAMICS AND PHASE EQUILIBRIA OF CERTAIN TRANSITIONELEMENT MINERALS (EAR-8009538 A01);* $88,200

GINGERICH, PHILIP D; *EVOLUTION OF THE NORTH AMERICAN MAMMALIAN FAUNA ACROSS THE PALEOCENE-EOCENE BOUNDARY (DEB-8010846*);* 24 MONTHS $30,000

KESLING, ROBERT V; *MIDDLE DEVONIAN OSTRACODA OF THE MICHIGAN BASIN AND ADJACENT AREAS: THEIR SUCCESSION AND GEOGRAPHIC DISTRIBUTION (EAR-8018686);* 24 MONTHS $30,693

WILTSCHKO, DAVID V; *LOCALIZATION OF AND MOTION ON THRUST FAULTS (EAR-8018792)*; 24 MONTHS $49,809

VAN DER VOO, ROB; *PALEOMAGNETISM OF EARLY PALEOZOIC ROCKS FROM NORTH AMERICA AND WESTERN EUROPE (EAR-8103031)*; 12 MONTHS $66,700

WILSON, JAMES L; *PENROSE CONFERENCE ON CARBONATE PLATFORMS, CAPRI AND PALERMO, ITALY, SEPTEMBER 6-14, 1981 (SGR-8103325)*; 6 MONTHS $2,000

PEACOR, DONALD R; *MICROCHEMICAL AND ULTRASTRUCTURAL ANALYSIS OF NON-EQUILIBRIUM GEOLOGICAL PROCESSES (EAR-8107529)*; 12 MONTHS $90,900

MINNESOTA

UNIVERSITY OF MINNESOTA

STOUT, JAMES H, AND SHAW, GEORGE H; *PHASE RELATIONS AT HIGH PRESSURE AND TEMPERATURE BY SIMULTANEOUS DIAMOND ANVIL LASER HEATING AND ENERGY DISPERSIVE DIFFRACTION (EAR-7812947 A02)*; 12 MONTHS $36,900

MURTHY, V RAMA; *ISOTOPIC AND GEOCHEMICAL STUDIES OF MANTLE-RELATED ROCKS AND MINERALS (EAR-7919590 A01)*; 12 MONTHS $80,100

HOOKE, ROGER L; *DOCTORAL DISSERTATION RESEARCH IN EARTH SCIENCES (EAR-8018247)*; 24 MONTHS $3,375

BANERJEE, SUBIR K; *PALEOMAGNETISM, PALEOCLIMATE AND PALEOENVIRONMENT (EAR-8019466)*; 12 MONTHS $47,600

MISSISSIPPI

OFFICE OF NAVAL RESEARCH-OCEAN SCIENCE AND TECHNOLOGY DETACHMENT

KAULUM, KEITH W; *SUPPORT OF AN ACADEMIC RESEARCH FLEET STUDY, NATIONAL ACADEMY OF SCIENCES (OCE-8104386)*; 12 MONTHS $57,500

MISSOURI

SOUTHWEST MISSOURI STATE UNIVERSITY

MILLER, JAMES F; *CONODONT BIOSTRATIGRAPHY OF THE CAMBRIAN-ORDOVICIAN BOUNDRY (EAR-8108621)*; 12 MONTHS $33,658

WASHINGTON UNIVERSITY

WALKER, ROBERT M; *THE STUDY OF GEOLOGICAL MATERIALS BY THE METHODS OF PARTICLE TRACKS, THERMOLUMINESCENCE AND RARE GASES (EAR-7822440 A02)*; 12 MONTHS $74,200

GOETTEL, KENNETH A; *HIGH PRESSURE EXPERIMENTS ON GEOLOGICAL MATERIALS USING THE DIAMOND ANVIL PRESSURE CELL (EAR-7911874 A02)*; 6 MONTHS $1,500

BATIZA, RODEY; *FIELD AND GEOLOGICAL STUDY OF GRANITOID ROCKS FROM A METAMORPHIC CORE COMPLEX IN EASTERN EGYPT (EAR-8009023 A01)*; 20 MONTHS $50,400

PASTERIS, JILL D; *FLUID INCLUSIONS AND SULFIDE MINERALOGY IN SEVERAL SUITES OF MANTLE ROCKS--THEIR COMPOSITIONS AND PETROLOGIC SIGNIFICANCE (EAR-8025255)*; 12 MONTHS $32,900

DAVIES, GEOFFREY F; *DYNAMICS AND EVOLUTION OF THE EARTH'S MANTLE (EAR-8108587)*; 12 MONTHS $40,000

GOETTEL, KENNETH A; *DIAMOND ANVIL PRESSURE CELL EXPERIMENTS ON MATERIALS OF GEOPHYSICAL INTEREST (EAR-8108735)*; 12 MONTHS $35,000

MONTANA

UNIVERSITY OF MONTANA

QAMAR, ANTHONY; *THE ORIGIN OF SEISMIC SIGNALS AT MOUNT ST. HELENS, WASHINGTON (EAR-8108613)*; 24 MONTHS $75,000

NEW HAMPSHIRE

DARTMOUTH COLLEGE

REYNOLDS, ROBERT C; *BURIAL METAMORPHISM IN THE MANCOS SHALE (EAR-7903894 A02)*; 12 MONTHS $25,600

JOHNSON, NOYE M; *UPLIFT HISTORY OF THE KARAKORAM-HINDU-KUSH RANGES, NORTHERN PAKISTAN BY MEANS OF FISSION TRACK ANNEALING AGES (EAR-8007638 A01)*; $22,200

LYONS, JOHN B; *AGE DATING AND GEOLOGIC STRUCTURE IN NORTHERN NEW ENGLAND (EAR-8012690*)*; 24 MONTHS $49,785

JOHNSON, GARY D; *CHRONOLOGY OF LATE TERTIARY AND QUATERNARY TERRESTRIAL SEDIMENTS, HIMALAYAN INTERMONTANE BASINS, INDIA AND PAKISTAN (EAR-8018779)*; 24 MONTHS $51,160

STOIBER, RICHARD E; *MASAYA VOLCANO, NICARAGUA, VOLCANOLOGY AND THE EFFECTS OF THE HIGH LEVEL OF GAS EMISSION (12R-8025719*)*; 12 MONTHS $21,700

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

GAUDETTE, HENRI E; *TRACE METAL DIAGENESIS OF RECENT MARINE SABKHA SEDIMENTS (EAR-7911194 A01)*; $6,600

GAUDETTE, HENRI E; *TRACE METAL DIAGENESIS OF RECENT MARINE SABKHA SEDIMENTS (EAR-7911194 A02)*; 12 MONTHS $52,000

NEW JERSEY

PRINCETON UNIVERSITY

SPERA, FRANK J; *ASPECTS OF MAGMA TRANSPORT: EXPERIMENTS, PHYSICAL MODELS AND FIELD STUDIES (EAR-7803340 A02)*; $26,100

SPERA, FRANK J, AND HOLLISTER, LINCOLN S; *PETROGENETIC IMPLICATIONS OF FLUID AND GLASS INCLUSIONS IN XENOLITHS AND MEGACRYSTS IN ALKALI BASALTS FROM NYE COUNTY, NEVADA (EAR-7813685 A01)*; 6 MONTHS $24,500

SUPPE, JOHN E; *GEOMETRIC AND KINEMATIC PROPERTIES OF MAP-SCALE DECOLLEMENT FOLDS (EAR-7925446 A01)*; 12 MONTHS $48,600

CRERAR, DAVID A; *THERMODYNAMIC STUDIES OF HYDROTHERMAL SOLUTIONS (EAR-7925931 A01)*; 12 MONTHS $42,500

DOWTY, ERIC; *KINETIC PROPERTIES OF MINERALS (EAR-7926309 A01)*; $29,900

HOLLISTER, LINCOLN S; *THE METAMORPHIC AND IGNEOUS HISTORY OF THE COAST PLUTONIC COMPLEX, B. C. (EAR-8007454 A01)*; 12 MONTHS $44,000

BAIRD, DONALD; *A DINOSAUR NESTING GROUND: EGGS, JUVENILES AND SOCIAL STRUCTURE (EAR-8007817 A01*)*; 12 MONTHS $10,000

FISCHER, ALFRED G; *HISTORY OF AN UNSTABLE SEA: ANALYSIS OF MID-CRETACEOUS EVENTS IN A BITUMINOUS SHALE CORE FROM COLORADO (EAR-8008203 A01)*; $59,700

HARGRAVES, ROBERT B; *RESEARCH IN PALEO-AND ROCK MAGNETISM (EAR-8008207 A01)*; $5,000

HARGRAVES, ROBERT B; *RESEARCH IN PALEO AND ROCK MAGNETISM (EAR-8008207 A02)*; 12 MONTHS $79,700

SUPPE, JOHN E; *FLUID PRESSURES IN FOLD-AND-THRUST BELTS (EAR-8018350)*; 24 MONTHS $59,980

SUPPE, JOHN E; *DOCTORAL DISSERTATION RESEARCH IN EARTH SCIENCES (EAR-8022234)*; 24 MONTHS $5,000

PHINNEY, ROBERT A; *CONTINUED STUDIES OF DEEP CRUSTAL REFLECTION DATA (EAR-8024108)*; 12 MONTHS $87,900

CRERAR, DAVID A; *THE GEOCHEMISTRY OF MANGANIFEROUS OPHIOLITES IN THE FRANCISCAN ASSEMBLAGE: IMPLICATIONS FOR HYDROTHERMAL ACTIVITY AT OCEANIC SPREADING CENTERS (EAR-8025487)*; 12 MONTHS $26,200

MORGAN, W JASON; *HOTSPOTS, LITHOSPHERIC THINNING, AND ELEVATION CHANGES (EAR-8025875)*; 12 MONTHS $40,100

FISCHER, ALFRED G; *BEDDING CYCLES IN SHALY AND CALCAREOUS SEDIMENTS AS POSSIBLE RECORDS OF ORBITAL CONTROL (EAR-8107648)*; 12 MONTHS $37,759

PHINNEY, ROBERT A; *AN ADVANCED MINICOMPUTER SYSTEM FOR GEOPHYSICAL DATA ANALYSIS (EAR-8108557)*; 12 MONTHS $85,000

EVANS, BRIAN; *GRAIN BOUNDARIES AND GRAIN BOUNDARY PROCESSES (EAR-8108560)*; 12 MONTHS $39,100

NEW MEXICO

UNIVERSITY OF NEW MEXICO

ELSTON, WOLFGANG E; *CENOZOIC VOLCANISM AND EXTENSIONAL OROGENY IN THE NEW MEXICO SEGMENT OF THE BASIN AND RANGE PROVINCE (EAR-8007836 A01)*; $74,872

NEW YORK

AMERICAN MUSEUM OF NATURAL HISTORY

TEDFORD, RICHARD H; *HIPPARIONINE HORSES - INTERNATIONAL WORKING SYMPOSIUM (EAR-8110870*)*; 12 MONTHS $10,000

COLGATE UNIVERSITY

MCLELLAND, JAMES; *MINERAL REACTIONS AND MASS TRANSPORT IN ADIRONDACK METAIGNEOUS ROCKS (EAR-8025373)*; 24 MONTHS $50,000

COLUMBIA UNIVERSITY

KUO, JOHN T; *APPLIED AIRBORNE SPECTRORADIOMETER RESEARCH TO DEVELOP A MINERAL EXPLORATION TECHNIQUE (EAR-8016637)*; 24 MONTHS $180,343

KUO, JOHN T; *THE NINTH INTERNATIONAL SYMPOSIUM ON EARTH TIDES, IAG/IUGG (EAR-8119277)*; 12 MONTHS $6,000

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

KING, KENNETH; *FOSSIL PROTEINS: CHEMICAL REACTIONS AND GEOCHRONOLOGIC APPLICATIONS (OCE-7808647 A02*)*; 12 MONTHS $36,194

SCHWEICKERT, RICHARD A, SCHREIBER, B CHARLOT, AND SNYDER, WALTER S; *TECTONIC EVOLUTION OF A LATE PALEOZOIC ISLAND ARC AND ITS BASEMENT, NORTHERN SIERRA NEVADA, CALIFORNIA (EAR-7814779 A02)*; 12 MONTHS $46,569

MCCANN, WILLIAM R, AND SYKES, LYNN R; *SEISMIC GAPS, PRECURSORY SEISMICITY PATTERNS AND RECURRENCE TIMES OF LARGE EARTHQUAKES ALONG CONVERGENT PLATE BOUNDARIES (EAR-7926350 A01)*; 12 MONTHS $70,000

KUO, JOHN T; *THE VARIATION OF GRAVITY AND THE OCCURRENCE OF EARTHQUAKES IN THE PEKING AND TEINTSIN REGION IN CHINA (EAR-8001563 A01)*; 12 MONTHS $132,400

RICHARDS, PAUL G, DAS, SHAMITA, AND SCHOLZ, CHRISTOPH H; *FUNDAMENTAL STUDIES OF SPONTANEOUS EARTHQUAKE FAULTING MODELS (EAR-8007436 A01)*; 12 MONTHS $70,000

KENT, DENNIS V, AND OPDYKE, NEIL D; *PALEOMAGNETIC INVESTIGATIONS OF THE ORIGIN OF THE ACADIA DISPLACED TERRAIN IN THE NORTHERN APPALACHIANS (EAR-8007748 A01)*; 12 MONTHS $60,000

ZINDLER, ALAN; *GEOCHEMISTRY OF LHERZOLITE NODULES: IMPLICATIONS FOR MELT EVOLUTION IN THE MANTLE (EAR-8011461)*; 12 MONTHS $40,100

BURDICK, LAWRENCE J, AND RICHARDS, PAUL G; *SYNTHETIC SEISMOGRAM INVESTIGATIONS OF UPPER MANTLE STRUCTURE (EAR-8018320)*; 12 MONTHS $30,000

SCHOLZ, CHRISTOPH H, AND JOHNSON, TRACY L; *EXPERIMENTAL STUDY OF THE EARTHQUAKE NUCLEATION PROCESS, THE STATIC TO DYNAMIC FRICTION TRANSITION, AND DYNAMIC FRICTION (EAR-8018669)*; 12 MONTHS $67,600

OPDYKE, NEIL D; *THE CORRELATION THROUGH MAGNETOSTRATIGRAPHY OF UPPER CENOZOIC FAUNAS OF NORTH AMERICA AND EURASIA (EAR-8018679)*; 24 MONTHS $85,000

JACOB, KLAUS H; *ANALYSIS OF BROAD-BAND AND STRONG-MOTION SEISMIC DATA FROM THE SHUMAGIN ISLANDS SEISMIC GAP, ALASKA (EAR-8023437)*; 12 MONTHS $37,500

SCHOLZ, CHRISTOPH H; *TEST OF A SCALING LAW OF THE COMPLIANCE OF FRACTURES IN ROCK (EAR-8023446)*; 12 MONTHS $51,000

JACOB, KLAUS H, AND BEAVAN, JOHN; *ACTIVITY OF MT. ST. HELENS VOLCANO AND THE ROLE OF SOLIDEARTH TIDES AS A TRIGGER (EAR-8024006)*; 12 MONTHS $33,400

KENT, DENNIS V, AND OPDYKE, NEIL D; *PALEOMAGNETIC STUDIES OF PALEOZOIC ROCKS IN WEST AFRICA (EAR-8025504)*; 12 MONTHS $60,100

OPDYKE, NEIL D, AND KENT, DENNIS V; *PALEOMAGNETIC INVESTIGATION OF THE YANGTZE PARAPLATFORM (EAR-8025867)*; 12 MONTHS $92,000

LANGMUIR, CHARLES H; *MODELING COMPLEX PROCESSES OF DIFFERENTIATION AND MELTING (EAR-8103343)*; 12 MONTHS $20,000

LAWRENCE, JAMES R; *PALEOGEOGRAPHY AND PALEOCLIMATES FROM STABLE ISOTOPIC STUDIES OF ANCIENT KAOLINITES (EAR-8108553)*; 12 MONTHS $34,500

CORNELL UNIVERSITY

KAY, ROBERT W; *REGIONAL PETROLOGY AND STRUCTURE OF THE LOWER CRUST: A STUDY OF XENOLITHS FROM DIFFERENT TECTONIC ENVIRONMENTS (EAR-7919719 A01)*; 12 MONTHS $37,500

BIRD, JOHN M; *FIELD AND LABORATORY STUDIES OF JOSEPHINITE (EAR-7919738 A01)*; 12 MONTHS $62,100

MCBRIDE, MURRAY B; *INTERACTIONS OF METAL-ORGANIC COMPLEXES WITH CLAY MINERAL AND OXIDE SURFACES IN AQUEOUS SOLUTION (EAR-7923290 A01)*; 12 MONTHS $19,600

BACHMAN, STEVEN B; *SEDIMENTOLOGY AND TECTONIC EVOLUTION OF THE COASTAL BELT FRANCISCAN SUBDUCTION COMPLEX, CALIFORNIA (EAR-8020472)*; 24 MONTHS $49,875

SEIDMAN, DAVID N, CARTER, C B, SASS, S L, AND GRUBB, DAVID T; *ACQUISITION OF AN ELECTRON MICROSCOPE (DMR-8021080*)*; 18 MONTHS $63,900

CISNE, JOHN L; *SYSTEMATICS AND PALEONTOLOGY OF MARINE INVERTEBRATES (DEB-8021158*)*; 12 MONTHS $12,000

ISACKS, BRYAN L; *SEISMICITY AND TECTONICS OF A CORDILLERAN TYPE MOUNTAIN BELT: THE ARGENTINIAN ANDES (EAR-8025890)*; 12 MONTHS $81,500

BARAZANGI, MUAWIA, AND ISACKS, BRYAN L; *SEISMOTECTONICS OF THE HIMALAYAN AND ZAGROS ARCS: DEPTH OF FAULTING AND SPATIAL EXTENT OF DEFORMATION, AND UPPERMOST MANTLE PROPERTIES BENEATH TIBET & THE WESTERN USA (EAR-8107666)*; 12 MONTHS $50,000

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

BLOOM, ARTHUR L, AND ISACKS, BRYAN L; *CHRONOLOGY OF RECURRING EARTHQUAKE-RELATED UPLIFT, NEW HEBRIDES ISLAND ARC (EAR-7815188 A01)*; 24 MONTHS $88,800

KAY, ROBERT W, AND KAY, SUZANNE M; *ALEUTIAN ARC MAGMATISM IN SPACE AND TIME: A GEOCHEMICAL AND PETROLOGIC STUDY (EAR-8007751 A01)*; $85,400

OLIVER, JACK E, KAUFMAN, SIDNEY, AND BROWN, LARRY D; *SEISMIC REFLECTION PROFILING OF THE CONTINENTAL BASEMENT (EAR-8018363)*; 12 MONTHS $2,633,449

OLIVER, JACK E, KAUFMAN, SIDNEY, AND BROWN, LARRY D; *ADVANCED ANALYSIS OF COCORP DATA WITH SCIENTIFIC AND TECHNOLOGICAL GOALS (EAR-8025361)*; 12 MONTHS $70,000

BIRD, JOHN M; *DEFORMATION-INDUCED MICROSTRUCTURES OF FOLDED ROCKS (EAR-8026446)*; 12 MONTHS $47,500

RENSSELAER POLYTECHNIC INSTITUTE

WATSON, EDWARD B; *HIGH-PRESSURE DIFFUSION IN MOLTEN SILICATES (EAR-7821812 A01)*; 12 MONTHS $26,900

WATSON, E BRUCE; *EXPERIMENTAL STUDIES IN THE KINETICS OF MAGMATIC PROCESSES (EAR-8025887)*; 12 MONTHS $61,000

STATE UNIVERSITY AT ALBANY

MEANS, WINTHROP D; *TECTONIC SIGNIFICANCE AND HISTORY OF STRUCTURE IN DUCTILE SHEER ZONES (EAR-8007812 A01)*; 12 MONTHS $27,705

KIDD, WILLIAM S; *DOCTORAL DISSERTATION RESEARCH IN EARTH SCIENCES (EAR-8016540)*; 19 MONTHS $4,000

BURKE, KEVIN C; *DOCTORAL DISSERTATION RESEARCH IN EARTH SCIENCES (EAR-8020740)*; 20 MONTHS $3,125

STATE UNIVERSITY AT BINGHAMTON

ENOS, PAUL; *LITHIFICATION HISTORY OF PLATFORM AND BASINAL LIMESTONES, MEXICO (EAR-8026444)*; 12 MONTHS $22,715

STATE UNIVERSITY AT BUFFALO

GIESE, ROSSMAN F; *INTERLAYER BONDING OF PHYLLOSILICATES AND THEIR INTERCALATES (EAR-7804561 A01)*; 24 MONTHS $70,700

HODGE, DENNIS, COZZARELLI, FRANCIS, AND SHAW, RICHARD P; *EFFECT OF NONLINEAR NONISOTHERMAL CREEP ON VERTICAL DEFLECTIONS AND STRESSES IN THE LITHOSPHERE ASSOCIATED WITH MAGMA INTRUSION AND VOLCANIC LOADING (EAR-8016884)*; 12 MONTHS $55,900

STATE UNIVERSITY AT STONY BROOK

SCHAEFFER, OLIVER A; *LASER 39AR - 40AR STUDIES OF TERRESTRIAL ROCKS (EAR-7919961 A01)*; $9,538

LINDSLEY, DONALD H, AND DELANO, JOHN W; *PHASE EQUILIBRIA OF LUNAR MAGMAS AND PYROXENE-LIQUID SYSTEMS (EAR-7926210 A01)*; 12 MONTHS $42,900

WEIDNER, DONALD J; *ELASTICITY OF MANTLE MINERALS (EAR-8007819 A01)*; 12 MONTHS $69,800

LIEBERMANN, ROBERT C, AND WEIDNER, DONALD J; *ELASTICITY OF POLYCRYSTAL & SINGLE CRYSTAL SPECIMENS OF MINERALS SYNTHESIZED AT HIGH PRESSURES (EAR-8018343)*; 12 MONTHS $78,000

SMOOT, JOSEPH P; *RIFT VALLEY SEDIMENTATION: A STUDY OF MODERN ARID CLOSED BASINS OF WESTERN UNITED STATES (EAR-8020378)*; 24 MONTHS $54,796

LINDSLEY, DONALD H; *PHASE EQUILIBRIA AND SOLUTION MODELING OF PYROXENES AND FE-TI OXIDES (EAR-8025260)*; 12 MONTHS $60,000

MEYERS, WILLIAM J; *GEOCHEMISTRY OF REGIONALLY EXTENSIVE CALCITE CEMENT ZONES IN MISSISSIPPIAN LIMESTONES, NEW MEXICO (EAR-8025364)*; 24 MONTHS $59,800

PAPIKE, JAMES J; *METASEDIMENTARY SEQUENCE: CRYSTAL CHEMISTRY, MINERALOGY AND PETROLOGY (EAR-8025486)*; 12 MONTHS $45,000

LIEBERMANN, ROBERT C; *ACOUSTIC ATTENUATION AND DISPERSION IN SINGLE CRYSTALS OF MINERALS (EAR-8025884)*; 24 MONTHS $75,000

REEDER, RICHARD J; *COLLABORATIVE RESEARCH ON DOLOMITE-MICROSTRUCTURE: ITS GEOLOGICAL SIGNIFICANCE AND QUANTITATIVE INTERPRETATION (EAR-8106629)*; 24 MONTHS $69,400

HANSON, GILBERT N; *ORIGIN OF GRANITIC ROCKS IN ARCHEAN TERRANES (EAR-8108586)*; 12 MONTHS $446,100

UNIVERSITY OF ROCHESTER

BASU, ASISH R, AND TATSUMOTO, MITSUNOBU; *PETROLOGY AND GEOCHEMISTRY OF ULTRABASIC ROCKS FROM THE EASTERN UNITED STATES (EAR-8011971 A01)*; 12 MONTHS $20,400

TEICHERT, CURT; *CAMBRIAN CEPHALOPODS OF CHINA (DEB-8030721*)*; 12 MONTHS $5,000

TEICHERT, CURT; *RECENT ADVANCES IN PALEONTOLOGY IN CHINA (EAR-8103339)*; 12 MONTHS $2,000

HOLDREN, GEORGE R; *KINETICS OF FORMATION OF AMORPHOUS ALUMINOSILICATES (EAR-8107490*)*; 12 MONTHS $38,497

NORTH CAROLINA

DUKE UNIVERSITY

MACPHEE, ROSS D; *BIOGEOGRAPHIC AND SYSTEMATIC STUDIES OF EXTINCT ANTILLEAN LAND MAMMALS (DEB-8021735*)*; 12 MONTHS $5,000

EAST CAROLINA UNIVERSITY

RIGGS, STANLEY R; *SUBMARINE PHOSPHORITES IN ONSLOW BAY, NORTH CAROLINA: EVALUATION OF AN EXPLORATION MODEL (OCE-7908949 A01*)*; $6,000

MAUGER, RICHARD L; *GEOLOGIC AND PETROLOGIC STUDIES OF THE SIERRA CALERA-DEL NIDO BLOCK AND NEARBY AREAS, CHIHUAHUA MEXICO (EAR-7915240 A02)*; 12 MONTHS $11,725

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

WEED, STERLING B, BOWEN, LAWRENCE H, AND BUOL, STANLEY W; *CHARACTERIZATION BY MOSSBAUER SPECTROSCOPY, X-RAY DIFFRACTION, ELECTRON MICROSCOPY, AND SURFACE ACTIVITY OF IRON OXIDES IN SOIL CLAYS (EAR-7904834 A01)*; 12 MONTHS $46,100

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

ROGERS, JOHN J; *PRECAMBRIAN OF SOUTH INDIA (EAR-7905723 A01*)*; 12 MONTHS $154,264

POWELL, CHRISTINE A; *THE RELATIVE ARRAY DIAGRAM: A NEW TECHNIQUE FOR DETERMINING CRUST AND UPPER MANTLE STRUCTURE BENEATH A LARGE ARRAY (EAR-8018804)*; 12 MONTHS $39,300

BARTLEY, JOHN M; *BASEMENT INVOLVEMENT IN DEFORMATION AND EXTENT OF POST-EMPLACEMENT RESTACKING OF CALEDONIAN NAPPES, NORTH NORWAY (EAR-8107585)*; 12 MONTHS $31,749

OHIO

CASE WESTERN RESERVE UNIVERSITY

ARONSON, JAMES, AND SAVIN, SAMUEL M; *ISOTOPIC INVESTIGATION INTO THE CONDITIONS AND TIMING OF SANDSTONE DIAGENESIS (EAR-7920064 A01)*; 12 MONTHS $70,100

STUART, WILLIAM D; *APPLICATION OF THEORETICAL MODELS TO EARTHQUAKE FORECASTING (EAR-8018800)*; 24 MONTHS $75,700

OHIO STATE UNIVERSITY

FOLAND, KENNETH A; *INVESTIGATION OF COMAGMATIC COMPLEXES USING ISOTOPE SYSTEMATICS (EAR-8018345)*; 24 MONTHS $90,300

ZINSMEISTER, WILLIAM J; *GEOCHRONOLOGY OF TERTIARY MARINE SEQUENCE OF SOUTHERN SOUTH AMERICA (EAR-8018356)*; 24 MONTHS $79,090

ZINSMEISTER, WILLIAM J; *DOCTORAL DISSERTATION RESEARCH IN EARTH SCIENCES (EAR-8019464)*; 24 MONTHS $7,670

UNIVERSITY OF CINCINNATI

JOHNSON, ARVID M; *MECHANISMS AND MECHANICS OF SOME FAULT-RELATED FOLDS IN THE CENTRAL AND SOUTHERN APPALACHIANS (EAR-8000053 A01)*; 12 MONTHS $37,319

POTTER, PAUL E; *PETROLOGY AND CHEMISTRY OF SOUTH AMERICAN BEACH SANDS (EAR-8018209)*; 36 MONTHS $56,060

HUFF, WARREN D; *CORRELATION OF MIDDLE ORDOVICIAN K-BENTONITES OF EASTERN NORTH AMERICA ON THE BASIS OF MAJOR AND MINOR ELEMENT DISTRIBUTION (EAR-8025889)*; 12 MONTHS $25,781

WRIGHT STATE UNIVERSITY

GREGOR, C B; *SEVENTH SYMPOSIUM ON GEOCHEMICAL CYCLES, ATLANTA, GEORGIA, NOVEMBER 16, 1980 (EAR-8018818)*; 6 MONTHS $1,200

OKLAHOMA

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

SUTHERLAND, PATRICK K; *COMPARATIVE BIOSTRATIGRAPHY OF THE LOWER AND MIDDLE PENNSYLVANIAN SYSTEM IN THE SOUTHERN MIDCONTINENT, NORTH AMERICA (EAR-7926336 A01)*; 12 MONTHS $51,700

OREGON

OREGON STATE UNIVERSITY

BOUCOT, ARTHUR J; *GLOBAL GEOLOGY OF SILURIAN-DEVONIAN ROCKS AND ASSOCIATED INVERTEBRATE FAUNAS, ESPECIALLY BRACHIOPODS (EAR-7919993 A01)*; 12 MONTHS $67,183

BOUCOT, ARTHUR J; *GLOBAL GEOLOGY OF SILURIAN-DEVONIAN ROCKS AND ASSOCIATED INVERTEBRATE FAUNAS, ESPECIALLY BRACHIOPODS (EAR-7919993 A02)*; $7,413

JOHNSON, J G; *A STANDARD BIOSTRATIGRAPHIC SEQUENCE FOR THE DEVONIAN IN WESTERN NORTH AMERICA (EAR-7926094 A01)*; 12 MONTHS $47,988

COCKER, JOSHUA D; *GEOCHRONOLOGIC AND ISOTOPIC STUDY OF THE MACQUARIE ISLAND OPHIOLITE (EAR-8011411)*; 24 MONTHS $76,000

YEATS, ROBERT S; *RELATION OF NEOGENE THRUST FAULTS TO SAN ANDREAS FAULT IN CUYAMA VALLEY, CALIFORNIA (EAR-8022271)*; 12 MONTHS $22,004

BODVARSSON, GUNNAR; *INTERSTITIAL FLUID PRESSURE SIGNALS IN RESERVOIR TESTING AND VOLCANOLOGY (EAR-8023850)*; 24 MONTHS $77,500

LEVI, SHAUL; *PALEOMAGNETIC INVESTIGATIONS OF JURASSIC PLUTONS OF THE KLAMATH MOUNTAINS PROVINCE, SOUTHWESTERN OREGON AND NORTHWESTERN CALIFORNIA (EAR-8109593)*; 24 MONTHS $65,000

UNIVERSITY OF OREGON - EUGENE

HOLSER, WILLIAM T; *EVOLUTIONARY EVENTS IN THE EARLY TRIASSIC OCEAN: A GEOCHEMICAL SURVEY OF THE WESTERN INTERIOR, USA (EAR-7821819 A02)*; $12,400

SAVAGE, NORMAN M; *PALEOZOIC BIOSTRATIGRAPHIC STUDIES ON PRINCE OF WALES ISLAND AND NEARBY ISLANDS, SOUTHEASTERN ALASKA (EAR-7903007 A02)*; $4,330

MCBIRNEY, ALEXANDER R; *INVESTIGATION OF THE PHYSICAL PROPERTIES OF PARTLY MOLTEN IGNEOUS ROCKS (EAR-7909458 A01)*; 12 MONTHS $41,600

RICE, JACK M; *METAMORPHISM AND MIXED-VOLATILE EQUILIBRIA OF CALC-SILICATE AND RELATED ROCKS (EAR-7922877 A01)*; 12 MONTHS $44,300

GRAY, JANE; *PRE-DEVONIAN LAND PLANT EVOLUTION AND PALEOECOLOGY (EAR-8008320)*; 12 MONTHS $42,500

WAFF, HARVE S; *STUDIES OF THE STRUCTURE AND PHYSICAL PROPERTIES OF SILICATE MELTS (EAR-8010736 A01)*; $77,400

RICE, JACK M; *METAMORPHISM OF PELITIC ROCKS IN THE ST. JOE - CLEARWATER REGION OF NORTHERN IDAHO (EAR-8018341)*; 24 MONTHS $74,500

GUSTAFSON, ERIC P; *MICROTINE EVOLUTION IN THE COLUMBIA BASIN PLIOCENE (EAR-8022358)*; 12 MONTHS $27,327

WAFF, HARVE S; *THE NATURE OF FLUID DISTRIBUTION IN PARTIALLY MOLTEN SILICATES AND MAGMA MOBILIZATION (EAR-8025795)*; 12 MONTHS $56,700

GRAY, JANE; *DOCTORAL DISSERTATION RESEARCH IN EARTH SCIENCES (EAR-8107106)*; 24 MONTHS $2,903

ORR, WILLIAM N; *OLIGOCENE STRATIGRAPHY OF THE OREGON WESTERN CASCADES (EAR-8108729)*; 12 MONTHS $30,357

PENNSYLVANIA

BRYN MAWR COLLEGE

SAUNDERS, W B; *PALEOBIOLOGY OF MIDDLE CARBONIFEROUS AMMONOIDS (DEB-8022340*)*; 36 MONTHS $15,000

CRAWFORD, MARIA L; *STUDY OF METAMORPHISM AND DEFORMATION IN THE COAST OROGEN, BRITISH COLUMBIA AND ALASKA (EAR-8100398)*; 12 MONTHS $18,861

SAUNDERS, W B; *GROWTH AND STATUS OF NAUTILUS IN ITS NATURAL HABITAT (EAR-8100629*)*; 24 MONTHS $41,587

LAFAYETTE COLLEGE

HOVIS, GUY L; *SOLUTION CALORIMETRIC, CRYSTALLOGRAPHIC, AND PHASE EQUILIBRIA INVESTIGATIONS OF THE THERMODYNAMIC PROPERTIES OF MINERALS (EAR-8107730)*; 12 MONTHS $32,900

LEHIGH UNIVERSITY

GOLDSTEIN, JOSEPH I; *THE EFFECTS OF PHOSPHORUS ON THE DEVELOPMENT OF THE STRUCTURE OF IRON METEORITES (EAR-7900895 A01)*; 12 MONTHS $55,100

EVENSON, EDWARD B; *SYMPOSIUM AND FIELD TRIP ON THE GENESIS AND LITHOLOGY OF MORANIC DEPOSITS IN AN ALPINE ENVIRONMENT, JACKSON, WYOMING, AUGUST 1981 (EAR-8112612)*; 6 MONTHS $2,000

PENNSYLVANIA STATE UNIVERSITY

BARNES, H L; *HYDROTHERMAL ORE-FORMING REACTIONS (EAR-7713073 A04)*; $8,000

BARNES, H L; *HYDROTHERMAL ORE-FORMING REACTIONS (EAR-7713073 A05)*; 12 MONTHS $58,000

SPACKMAN, WILLIAM; *MODERN ORGANIC SEDIMENTS AND THEIR RELATIONSHIPS TO CARBONACEOUS ROCKS AND ROCK SEQUENCES (EAR-7715074 A03)*; 12 MONTHS $58,200

BURNHAM, C W; *EQUILIBRIUM PROPERTIES OF MAGMA SYSTEMS (EAR-7812957 A01)*; 24 MONTHS $125,300

VOIGHT, BARRY; *TECTONICS OF THE TJORNES FRACTURE ZONE AND LITHOSPHERIC NECKING, NORTHERN ICELAND (EAR-7904268 A02)*; 12 MONTHS $41,000

VOIGHT, BARRY; *TECTONICS OF THE TJORNES FRACTURE ZONE AND LITHOSPHERIC NECKING, NORTHERN ICELAND (EAR-7904268 A03)*; $13,000

ALEXANDER, SHELTON S; *INVESTIGATION OF SEISMIC PRECURSORY PHENOMENA USING HIGH QUALITY TELESEISMIC OBSERVATIONS (EAR-7906144 A01)*; 12 MONTHS $61,200

WRIGHT, LAUREN A; *STRATIGRAPHIC-TECTONIC EVOLUTION OF THE SOUTHWESTERN PART OF THE GREAT BASIN, CALIFORNIA-NEVADA (EAR-7927092 A01)*; 12 MONTHS $40,155

LASAGA, ANTONIO C; *THEORETICAL, EXPERIMENTAL AND FIELD STUDY OF DIFFUSION AND GROWTH IN METAMORPHISM AND SILICATE MELTS (EAR-8007755 A01)*; 12 MONTHS $40,600

OHMOTO, HIROSHI; *STABLE ISOTOPE GEOCHEMISTRY OF HYDROTHERMAL SYSTEMS (EAR-8007839 A01)*; 12 MONTHS $61,600

LANGSTON, CHARLES A; *CRUSTAL STRUCTURE OF SPECIFIC SITES IN SOUTHERN CALIFORNIA FROM ANALYSIS OF BROAD-BAND TELESEISMIC RECORDINGS (EAR-8013704)*; 12 MONTHS $39,000

EGGLER, DAVID H; *INVESTIGATION OF MAGMA GENERATION IN THE UPPER MANTLE, WITH EMPHASIS ON KIMBERLITES, ARC THOLEIITES-ANDESITES, AND METASOMATISM (EAR-8022263)*; 12 MONTHS $70,500

KERRICK, DERRILL M, AND LASAGA, ANTONIO C; *KINETIC STUDY OF METAMORPHIC REACTIONS (EAR-8026078)*; 12 MONTHS $50,300

ROSE, ARTHUR W; *STRATIFORM COPPER, COPPER-COBALT, AND COPPER-URANIUM DEPOSITS IN SEDIMENTARY ROCKS (EAR-8026454)*; 12 MONTHS $58,600

OHMOTO, HIROSHI; *U.S.-JAPAN-CANADA COOPERATIVE RESEARCH PROJECT ON THE GENESIS OF VOLCANOGENIC MASSIVE SULFIDE DEPOSITS (EAR-8109270)*; 12 MONTHS $35,000

TEMPLE UNIVERSITY

ANDERSON, EDWIN J, AND GOODWIN, PETER W; *A STRATIGRAPHIC STUDY OF THE HELDERBERG GROUP OF NEW YORK STATE AS A TEST OF THE HYPOTHESIS OF PUNCTUATED AGGRADATIONAL CYCLES (EAR-8107690)*; 12 MONTHS $30,037

UNIVERSITY OF PENNSYLVANIA

PFEFFERKORN, HERMANN W; *TAPHONOMY OF LAND PLANTS IN CLASTIC FACIES OF A MODERN TROPICAL DELTA (EAR-8019690)*; 12 MONTHS $28,352

UNIVERSITY OF PITTSBURGH

SCHMIDT, VICTOR A; *PALEOMAGNETISM OF MAMMOTH CAVE SEDIMENTS (EAR-7815198 A01)*; 24 MONTHS $78,000

RHODE ISLAND

BROWN UNIVERSITY

GROMET, L PETER; *STUDY OF RARE EARTH DISTRIBUTION AMONG MINERALS IN SELECTED IGNEOUS SUITES AND CONSTRUCTION OF PETROGENETIC MODELS (EAR-7911184 A01)*; 12 MONTHS $22,300

HERMANCE, JOHN F; *REGIONAL VARIATIONS IN THE ELECTRICAL CONDUCTIVITY OF THE UPPER MANTLE FROM GLOBAL MAGNETIC DATA (EAR-7911283 A01)*; 12 MONTHS $57,600

GILETTI, BRUNO J; *COLLABORATIVE EFFORT: MIT-BROWN-HARVARD REGIONAL ION MICROPROBE FACILITY (EAR-7921459 A01)*; 12 MONTHS $21,100

GILETTI, BRUNO J; *KINETIC STUDIES OF GEOLOGICAL PROCESSES (EAR-7921460 A01)*; 12 MONTHS $86,100

YUND, RICHARD A; *KINETICS AND MECHANISMS OF SELECTED MINERALOGICAL PROCESSES (EAR-7926370 A01)*; 12 MONTHS $70,000

MATTHEWS, R K; *CARBONATE DIAGENESIS: CHARACTERIZATION OF MIXING ZONE PRODUCTS AND KINETICS OF THEIR FORMATION (EAR-7927162 A01)*; 12 MONTHS $32,000

HERMANCE, JOHN F; *REGIONAL THERMAL REGIMES ASSOCIATED WITH MAJOR VOLCANIC CENTERS: MAGNETOTELLURIC CONSTRAINTS ON DEEP-SEATED MAGMA GENESIS IN THE CRUST AND UPPER MANTLE (EAR-8018503)*; 12 MONTHS $89,100

TULLIS, JAN; *MECHANISMS OF STRAIN LOCALIZATION AND MYLONITE FORMATION: GRAIN SIZE DEPENDENCE OF FLOW STRENGTHS OF QUARTZ AGGREGATES (EAR-8025481)*; 24 MONTHS $78,000

TULLIS, TERRY E; *ROCK FRICTION CONSTITUTIVE EXPERIMENTS AS RELATED TO THEORY OF EARTHQUAKE INSTABILITY (EAR-8025885)*; 12 MONTHS $85,328

RUTHERFORD, MALCOLM J, AND HESS, PAUL C; *EQUILIBRIUM AND FRACTIONAL CRYSTALLIZATION OF LUNAR MAGMAS (EAR-8108554)*; 12 MONTHS $59,000

GORDON RESEARCH CONFERENCES

EINAUDI, MARCO T; *GORDON RESEARCH CONFERENCE ON INORGANIC GEOCHEMISTRY (HYDROTHERMAL SYSTEMS RELATED TO ORE DEPOSITS); COLBY-SAWYER COLLEGE, NEW LONDON, NEW HAMPSHIRE, AUGUST 17-21, 1981 (EAR-8110862)*; 6 MONTHS $6,000

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY

SCHILLING, JEAN-GUY; *GEOCHEMICAL STUDY OF ULTRAPOTASSIC LAVAS FROM LEUCITE HILLS, WYOMING AND OTHER CONTINENTAL REGIONS (EAR-7816617 A02)*; 12 MONTHS $40,000

SIGURDSSON, HARALDUR, AND SOMMER, MICHAEL A; *COLLABORATIVE RESEARCH ON ROLE OF VOLATILES IN LESSER ANTILLES ISLAND ARC MAGMAS (EAR-8018809)*; 24 MONTHS $62,300

SIGURDSSON, HARALDUR; *COLLABORATIVE RESEARCH ON ROLE OF VOLATILES IN LESSER ANTILLES ISLAND ARC MAGMAS (EAR-8018809 A01)*; $1,000

UNIVERSITY OF RHODE ISLAND

HERMES, O DON; *GEOCHRONOLOGIC STUDY OF CRYSTALLINE ROCKS FROM THE AVALON TERRAIN OF SOUTHEASTERN NEW ENGLAND (EAR-8025492)*; 12 MONTHS $10,400

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

COHEN, ARTHUR D; *GEOLOGIC AND COAL PETROLOGIC INVESTIGATIONS OF THE PEAT DEPOSITS OF THE OKEFENOKEE SWAMP (EAR-7926382 A01)*; 12 MONTHS $43,900

SNOKE, ARTHUR W; *GEOLOGICAL SOCIETY OF AMERICA PENROSE CONFERENCE: THE SIGNIFICANCE AND PETROGENESIS OF MYLONITIC ROCKS; SAN DIEGO, CA; APRIL 28 - MAY 2, 1981 (29R-8018814)*; 12 MONTHS $4,000

SECOR, DONALD T; *AN INVESTIGATION OF THE EXTENT AND TIMING OF LATE PALEOZOIC TECTONOTHERMAL ACTIVITY IN THE PIEDMONT OF CENTRAL SOUTH CAROLINA (EAR-8020474)*; 24 MONTHS $67,246

HATCHER, ROBERT D; *INTERNAL AND EXTERNAL BASEMENT MASSIFS OF THE SOUTHERN APPALACHIANS: TECTONIC ROLE AND LOCALIZATION OF THRUST SHEETS (EAR-8108502)*; 12 MONTHS $33,604

TENNESSEE

UNIVERSITY OF TENNESSEE AT KNOXVILLE

WALKER, KENNETH R; *COLLABORATIVE RESEARCH ON BIOSTRATIGRAPHY AND PALEOECOLOGY OF MIDDLE ORDOVICIAN CARBONATE ROCKS OF THE SOUTHERN APPALACHIANS (EAR-7927868 A01)*; 12 MONTHS $37,725

VANDERBILT UNIVERSITY

MILLER, CALVIN F; *PERALUMINOUS TRONDHJEMITES, BLUE RIDGE PROVINCE, NORTH CAROLINA PETROLOGIC AND TECTONIC SIGNIFICANCE (EAR-8109055)*; 12 MONTHS $28,800

TEXAS

NORTH TEXAS STATE UNIVERSITY

HALL, STEPHEN A; *HOLOCENE VEGETATION AND CLIMATE IN THE SOUTHERN ROCKY MOUNTAINS OF NEW MEXICO (EAR-7911158 A01)*; 12 MONTHS $22,760

RICE UNIVERSITY

LEEMAN, WILLIAM P; *THE ROLE OF DEEP CRUSTAL ROCKS IN THE GENESIS OF SILICIC MAGMAS - SNAKE RIVER PLAIN, IDAHO (EAR-8018580)*; 12 MONTHS $31,000

OLDOW, JOHN S; *TECTONIC EVOLUTION AND PALEOGEOGRAPHIC RECONSTRUCTION OF A LATE MESOZOIC FOLD AND THRUST BELT IN WEST-CENTRAL NEVADA (EAR-8107673)*; 12 MONTHS $30,450

SOUTHERN METHODIST UNIVERSITY

SAID, RUSHDI; *THE QUATERNARY GEOLOGY OF EGYPT (EAR-8006609)*; 12 MONTHS $16,682

HOLDAWAY, MICHAEL J; *STABILITY RELATIONS OF SILICATES IN THE SYSTEM K20-FE0-A12 SIO3-H20 BASED ON FIELD, EXPERIMENTAL AND THEORETICAL STUDIES (EAR-8025891)*; 12 MONTHS $33,300

DUNGAN, MICHAEL A; *PETROLOGIC AND GEOCHEMICAL STUDIES OF LATE CENOZOIC VOLCANISM ASSOCIATED WITH NORTHERN RIO GRANDE RIFT, NORTHERN NEW MEXICO AND SOUTH-CENTRAL COLORADO (EAR-8026451)*; 12 MONTHS $36,000

TEXAS A & M UNIVERSITY

STANTON, ROBERT J, AND POWELL, ERIC N; *RECONSTRUCTING THE PALEO COMMUNITY FROM THE FOSSIL ASSEMBLAGE--COMPARATIVE ANALYSIS OF LIVING COMMUNITIES AND DEATH ASSEMBLAGES IN TEXAS BAYS (EAR-8021164)*; 12 MONTHS $53,337

POPP, ROBERT K, AND HAJASH, ANDREW; *EXPERIMENTAL DETERMINATION OF ACTIVITY-COMPOSITION RELATIONS OF FE-MG CLINOAMPHIBOLES (EAR-8025259)*; 24 MONTHS $61,700

FLETCHER, RAYMOND C; *MECHANICS OF SOLUTION SURFACES IN PRESSURE SOLUTION (EAR-8115913)*; 24 MONTHS $73,030

UNIV OF TEXAS AT AUSTIN

BAKER, VICTOR R; *HOLOCENE PALEOHYDROLOGY OF THE SOUTHWESTERN U.S. (EAR-7723025 A01)*; 6 MONTHS $3,375

MAXWELL, JOHN C; *PREPARATION OF COLOR SEPARATION PLATES FOR CROSS SECTIONS AND MAPS, PLATE MARGINS PROJECT, U.S. GEODYNAMICS COMMITTEE (EAR-7808158 A02)*; $21,500

LAND, LYNTON S; *PHREATIC METEORIC DIAGENESIS OF HOLOCENE SEDIMENT, SCHOONER CAYS (EAR-8001650)*; 24 MONTHS $52,400

LUNDELIUS, ERNEST L; *DOCTORAL DISSERTATION RESEARCH IN EARTH SCIENCES (EAR-8018799)*; 24 MONTHS $5,000

BACKUS, MILO M, AND WILSON, CLARK; *BASIC PROPERTIES OF SEISMIC REFLECTION DATA AND IMPROVED METHODS OF PROCESSING AND INTERPRETATION (EAR-8019063)*; 12 MONTHS $55,000

MUEHLBERGER, WILLIAM R; *WORKSHOP ON THE SCIENTIFIC BASIS FOR TECTONIC MAPPING, AUSTIN, TEXAS, JANUARY 23-27, 1981 (EAR-8100389)*; 6 MONTHS $17,000

BAKER, VICTOR R; *HOLOCENE PALEOHYDROLOGY OF THE SOUTHWESTERN U.S. (EAR-8100391)*; 12 MONTHS $30,491

SMITH, DOUGLAS, AND WILSON, CLARK; *MEASUREMENT AND INTERPRETATION OF COMPOSITIONAL GRADIENTS IN PERIDOTITE (EAR-8108578)*; 12 MONTHS $30,000

UNIV OF TEXAS AT DALLAS

PESSAGNO, EMILE L; *INVESTIGATIONS OF UPPER TRIASSIC AND JURASSIC RADIOLARIA AND RADIOLARIAN BIOSTRATIGRAPHY IN THE NEVADIAN COMPLEX (EAR-7813934 A02)*; 12 MONTHS $37,538

PRESNALL, DEAN C; *MINERALOGICAL, CHEMICAL, AND PHASE EQUILIBRIUM STUDIES BEARING ON MANTLE EVOLUTION AND THE GENERATION AND CRYSTALLIZATION OF BASALTIC MAGMA (EAR-8018359)*; 24 MONTHS $55,000

WARD, RONALD W; *ANALYSIS AND INTERPRETATION OF 3-D OBSERVATIONS DURING COCORP SURVEYS (EAR-8018789)*; 12 MONTHS $70,000

PRESNALL, DEAN C; *EXPERIMENTAL STUDY OF RARE EARTH ELEMENT PARTITIONING BETWEEN LHERZOLITE MINERALS AND SIMPLIFIED BASALTIC LIQUIDS AT HIGH PRESSURES (EAR-8025491)*; 12 MONTHS $53,900

ERIKSSON, KENNETH A; *PRECAMBRIAN SEDIMENTOLOGICAL STUDIES: MIDDLE PRECAMBRIAN OF NEW MEXICO (EAR-8107523)*; 3 MONTHS $16,080

HALES, ANTON L; *A STUDY OF THE UPPER MANTLE VELOCITY DISTRIBUTIONS IN REGIONS IN WHICH INTERMEDIATE AND DEEP FOCUS EARTHQUAKES OCCUR (EAR-8107693)*; 12 MONTHS $50,000

UNIV OF TEXAS AT EL PASO

KELLER, G R; *A COOPERATIVE SEISMIC REFRACTION PROFILING EXPERIMENT IN THE RIO GRANDE RIFT (EAR-8025371)*; 12 MONTHS $55,000

UNIV OF TEXAS AT SAN ANTONIO

SWANSON, ERIC R; *VOLCANO-STRATIGRAPHIC STUDIES IN THE GUADIANA VALLEY, DURANGO, MEXICO (EAR-8108734*)*; 24 MONTHS $15,267

UNIV OF TEXAS OF THE PERMIAN BASIN

MULLER, PAMELA H; *PALEODEPTH STUDIES OF SYMBIONT-BEARING, BENTHIC FORAMINIFERA (EAR-8026459)*; 24 MONTHS $30,000

UNITED KINGDOM

UNIVERSITY OF READING

HUGHES, ANTHONY A; *PARTIAL SUPPORT OF THE INTERNATIONAL SEISMOLOGICAL CENTRE (EAR-8107865)*; 12 MONTHS $67,300

UTAH

UNIVERSITY OF UTAH

HOHMANN, GERALD W; *TRANSIENT ELECTROMAGNETIC MODELING (EAR-7912447 A01)*; 12 MONTHS $50,000

BRUHN, RONALD L; *TECTONICS OF THE BORDER RANGES FAULT SYSTEMS AND ADJACENT TERRANES, WESTERN CHUGACH MOUNTAINS, ALASKA (EAR-8020468)*; 24 MONTHS $70,965

BOWMAN, JOHN R; *PETROLOGIC, FLUID INCLUSION, AND STABLE-ISOTOPE STUDIES OF CONTACT REPLACEMENT SKARNS (EAR-8107551*)*; 24 MONTHS $64,900

EKDALE, ALLAN A; *BIOTURBATION, ICHNOLOGY AND EARLY DIAGENESIS OF UPPER CRETACEOUS CHALK DENMARK (EAR-8108566)*; 12 MONTHS $26,537

VIRGINIA

AMERICAN GEOLOGICAL INSTITUTE

HAY, WILLIAM W; *U.S. PARTICIPATION IN THE INTERNATIONAL GEOLOGICAL CORRELATION PROGRAM (EAR-7926766 A01)*; 12 MONTHS $69,300

DEPARTMENT OF NAVY-OFFICE OF NAVAL RESEARCH

SALKOVITZ, E I; *SUPPORT OF THE NATIONAL ACADEMY OF ENGINEERING MARINE BOARD VIA THE OFFICE OF NAVAL RESEARCH (OCE-8006009 A01*)*; 12 MONTHS $8,000

KAULUM, KEITH W; *SUPPORT OF THE SECRETARIAT OF THE INTERNATIONAL ASSOCIATION FOR THE PHYSICAL SCIENCES OF THE OCEAN (IAPSO) (OCE-8011218 A*; 12 MONTHS $9,000

SALKOVITZ, E I; *SUPPORT OF THE NATIONAL ACADEMY OF SCIENCES - OCEAN SCIENCES BOARD (OCE-8106605)*; 12 MONTHS $45,000

MCKISIC, MIKE; *WORKSHOP ON COMPUTATIONAL SEISMOLOGY, TO BE HELD MARCH 23-26, 1981, AT SALISHAN LODGE, GLENDEN BEACH, OREGON (EAR-8111245)*; 3 MONTHS $10,000

GEOLOGICAL SURVEY

FILSON, JOHN; *INSTALLATION OF THE DIGITAL WWSSN STATIONS (EAR-8018607)*; 12 MONTHS $135,000

VIRGINIA POLYTECHNIC INSTITUTE

GIBBS, GERALD V, AND RIBBE, PAUL H; *STRUCTURE AND BONDING IN MINERALS (EAR-7723114 A03)*; 12 MONTHS $72,500

GRAY, DAVID R; *IMPLICATIONS OF INCREMENTAL STRAIN ANALYSIS FOR DEFORMATION PROCESSES IN OROGENIC ZONES (EAR-7919703 A01)*; 12 MONTHS $27,000

GLOVER, LYNN, AND COSTAIN, JOHN K; *SEISMIC REFLECTION MAPPING IN APPALACHIAN CORRIDORS (EAR-8009549 A01)*; $57,200

CRAIG, JAMES R; *SULFIDE MINERALIZATION IN THE CENTRAL APPALACHIANS (EAR-8011418 A01)*; 12 MONTHS $22,000

BLOSS, F DONALD, AND WONES, DAVID R; *OPTICAL PROPERTIES OF ROCK-FORMING MINERALS (EAR-8018492)*; 24 MONTHS $70,000

READ, JAMES F; *SEDIMENTOLOGIC EVOLUTION AND PLATFORM TYPES, CAMBRIANORDOVICIAN PASSIVE MARGIN, VIRGINIA APPALACHIANS (EAR-8108577)*; 12 MONTHS $25,808

ERIKSSON, KENNETH A; *PRECAMBRIAN SEDIMENTOLOGICAL STUDIES: MIDDLE PRECAMBRIAN OF NEW MEXICO (EAR-8118235)*; 20 MONTHS $30,593

WASHINGTON

UNIVERSITY OF WASHINGTON

RAYMOND, CHARLES F; *COLLABORATIVE RESEARCH ON SURGES OF VARIEGATED GLACIER (EAR-7919424 A01)*; 12 MONTHS $35,903

EVANS, BERNARD W; *PURCHASE OF INDUCTIVELY COUPLED PLASMA OPTICAL EMISSION SPECTROMETER (ICP-OES) (EAR-7923616)*; 12 MONTHS $64,800

FORBES, ROBERT B, AND EVANS, BERNARD W; *PETROLOGIC AND STRUCTURAL STUDIES OF BLUESCHISTS AND ECOLOGITES IN THE NOME GROUPE TERRANE, ALASKA (EAR-8008856 A01)*; 12 MONTHS $59,400

MILES, EDWARD L; *MANAGEMENT OF MARINE REGIONS: THE NORTH PACIFIC (OCE-8011422)*; 24 MONTHS $124,127

MERRILL, RONALD T; *THERMAL REMANENT MAGNETIZATION IN SMALL NON-UNIFORMLY MAGNETIZED GRAINS (EAR-8018201)*; 24 MONTHS $76,500

DUNNE, THOMAS; *THE EVOLUTION OF HILLSLOPES BY WATER EROSION (EAR-8018386*)*; 24 MONTHS $30,200

DIMICHELE, WILLIAM A; *GEOLOGY AND PALEOECOLOGY OF THE INDIANA BLOCK COAL INTERVAL: CUTICULAR (PAPER) COALS, AND ASSOCIATED FRESH WATER DEPOSITS (EAR-8018324)*; 24 MONTHS $29,008

CROSSON, ROBERT S; *STRUCTURE AND COMPOSITION OF THE CRUST IN THE VICINITY OF MT. ST. HELENS, WASHINGTON (EAR-8025871)*; 12 MONTHS $52,200

COWAN, DARREL S; *LATE MESOZOIC TECTONIC EVOLUTION OF THE SOUTHWESTERN MARGIN OF VANCOUVER ISLAND (EAR-8107654)*; 24 MONTHS $56,823

HALLET, BERNARD; *THE MECHANICS OF GLACIAL EROSION (EAR-8109308)*; 5 MONTHS $21,396

HALLET, BERNARD; *THE MECHANICS OF GLACIAL EROSION (EAR-8109308 A01)*; 12 MONTHS $51,839

BOOKER, JOHN R; *INDUCTION STUDIES IN THE PACIFIC NORTHWEST (EAR-8109462)*; 12 MONTHS $50,000

WASHINGTON STATE DEPT OF NATURAL RESOURCES

LOGAN, ROBERT L; *PRESERVATION OF PHOTOGRAPHIC AND VIDEOTAPE DOCUMENTATION OF THE 1980 ERUPTION OF MOUNT ST. HELENS (EAR-8023821)*; 12 MONTHS $19,976

WESTERN WASHINGTON UNIVERSITY

EASTERBROOK, DON J; *TEPHROCHRONOLOGY, PALEOMAGNETIC, AMINO ACID, AND RADIOCARBON DATING OF QUATERNARY DEPOSITS IN WASHINGTON (EAR-8008321 A01)*; $75,000

BECK, MYRL E, AND BURMESTER, RUSSELL F; *PALEOMAGNETISM OF CRETACEOUS PLUTONS FROM THE NORTH CASCADES OF WASHINGTON STATE: TECTONICS OF A DISPLACED OR DISRUPTED TERRANE (EAR-8106323)*; 24 MONTHS $70,000

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

GUIDOTTI, CHARLES V; *VOLUMES OF MIXING, CRYSTAL CHEMISTRY, AND P-T-X CONTROLS ON THE COMPOSITIONAL RANGES OF SOME IMPORTANT SOLID SOLUTION MINERALS OF PELITIC SCHISTS (EAR-7902597 A02)*; 12 MONTHS $45,859

MEYER, ROBERT P; *ANALYSIS OF PROJECT ROSE DATA, UNIVERSITY OF WISCONSIN (EAR-8000048 A01)*; 12 MONTHS $85,500

MEYER, ROBERT P; *THE INTERMEDIATE-DEPTH EARTHQUAKES OF THE BUCARAMANGA NEST AND THE TECTONICS OF WESTERN COLOMBIA: ANALYSIS OF 1979 DATA (EAR-8019689)*; 12 MONTHS $45,600

BAILEY, STURGES W; *STRUCTURES OF LAYER SILICATE MINERALS (EAR-8106124)*; 12 MONTHS $54,700

DOTT, ROBERT H; *CAMBRIAN SEDIMENTOLOGY IN THE UPPER MIDWEST (EAR-8107729)*; 12 MONTHS $29,922

KNOX, JAMES C; *RESPONSES OF MIDWEST RIVER SYSTEMS TO HOLOCENE CLIMATES (EAR-8108731)*; 12 MONTHS $37,751

MUDREY, M G; *ARCHEAN GEOCHEMISTRY FIELD CONFERENCE, MICHIGAN AND WISCONSIN; SEPTEMBER 15-20, 1981 (EAR-8109202*)*; 6 MONTHS $4,000

UNIVERSITY OF WISCONSIN-RIVER FALLS

BAKER, ROBERT W; *DEVELOPMENT OF FABRIC AND FOLIATION IN ICE AND THE EFFECT OF ANISOTROPY ON CREEP (EAR-7901761 A01*)*; 12 MONTHS $10,162

WYOMING

UNIVERSITY OF WYOMING

MITRA, GAUTAM, FROST, B RONALD, AND SMITHSON, SCOTT B; *GEOLOGICAL AND GEOPHYSICAL STUDIES OF ARCHEAN CRUST IN THE WIND RIVER MOUNTAINS (EAR-7927161 A01)*; 12 MONTHS $42,396

SURDAM, RONALD C; *A DIAGENETIC MODEL FOR THE MONTEREY FORMATION, PISMO SYNCLINE, CALIFORNIA (EAR-8007836 A01)*; 12 MONTHS $29,700

SMITHSON, SCOTT B; *A COMPUTER SYSTEM FOR SEISMIC REFLECTION STUDIES (EAR-8019467)*; 12 MONTHS $75,000

SMITHSON, SCOTT B, AND HOUSTON, ROBERT S; *GEOPHYSICAL AND GEOLOGICAL STUDIES OF A MAJOR PRECAMBRIAN CRUSTAL DISCONTINUITY IN SOUTHEASTERN WYOMING (EAR-8026580)*; 12 MONTHS $42,500

STEINER, MAUREEN; *GEOMAGNETIC POLARITY DURING THE JURASSIC (EAR-8107739)*; 12 MONTHS $49,800

MEARS, BRAINERD; *DOCTORAL DISSERTATION RESEARCH IN EARTH SCIENCES (EAR-8108719)*; 18 MONTHS $3,495

SMITHSON, SCOTT B, AND QUINCY, EDMUND A; *INTERPRETATION OF COCORP REFLECTION PROFILES FOR CONTRASTING CRUSTAL STRUCTURE (EAR-8108725)*; 12 MONTHS $50,000

STEIDTMANN, JAMES R; *LARAMIDE BASEMENT UPLIFT AND BASIN SUBSIDENCE IN THE WIND RIVER MOUNTAINS (EAR-8108938)*; 12 MONTHS $35,458

OCEANOGRAPHY

ALASKA

UNIVERSITY OF ALASKA FAIRBANKS CAMPUS-INSTITUTE OF MARINE SCIENCE

REEBURGH, WILLIAM S, AND SHAW, DAVID G; *ISOTOPE STUDIES OF THE SULFATE-METHANE TRANSITION ZONE IN MARINE SEDIMENTS (OCE-7919250 A01)*; 12 MONTHS $81,505

ROYER, THOMAS C; *RECIRCULATION IN THE NORTH PACIFIC SUBARCTIC GYRE (OCE-8018386)*; 12 MONTHS $170,817

DIETER, EMMA R; *SHIPBOARD TECHNICIAN SUPPORT (OCE-8023171)*; 12 MONTHS $79,711

DIETER, EMMA R; *SHIP OPERATIONS SUPPORT (OCE-8023169)*; 12 MONTHS $946,944

NIEBAUER, HENRY J, AND ALEXANDER, VERA D; *DYNAMICS OF AN ICE-EDGE ZONE (OCE-8024058*)*; 12 MONTHS $44,317

REEBURGH, WILLIAM S; *CONTINUED STUDIES OF CONVECTIVE INTERSTITIAL WATER REPLACEMENT IN SHALLOW WATER SEDIMENTS (OCE-8026046)*; 12 MONTHS $40,053

DIETER, EMMA R; *IMPROVEMENTS FOR BASIC SHIP OPERATIONS (OCE-8026726)*; $190,000

DIETER, EMMA R; *CONVERSION AND UPGRADING OF R/V ALPHA HELIX (OCE-8107875)*; 12 MONTHS $425,235

DIETER, EMMA R; *CONVERSION AND UPGRADING OF R/V ALPHA HELIX (OCE-8107875 A01)*; $14,500

DIETER, EMMA R; *CONVERSION & UPGRADING OF R/V ALPHA HELIX (OCE-8107875 A02)*; $58,000

DIETER, EMMA R; *CONVERSION AND UPGRADING OF R/V ALPHA HELIX (OCE-8117001)*; 12 MONTHS $259,740

UNIVERSITY OF ALASKA FAIRBANKS CAMPUS

ROYER, THOMAS C; *OCEANOGRAPHIC INSTRUMENTATION (OCE-8023023)*; 12 MONTHS $61,420

DIETER, EMMA R; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-8023024)*; 12 MONTHS $13,225

ARIZONA

UNIVERSITY OF ARIZONA

MEIJER, AREND; *PETROLOGIC AND GEOCHEMICAL STUDIES OF VOLCANIC ISLANDS AND DREDGES SAMPLES ALONG THE MARIANA TRANSECT (OCE-8018375)*; 12 MONTHS $48,955

CALIFORNIA

AMERICAN SOCIETY OF ZOOLOGISTS

LAWRENCE, JOHN M; *SUPPORT FOR THE INTERNATIONAL ECHINODERM CONFERENCE, SEPTEMBER 14-18, 1981 (OCE-8108454)*; 12 MONTHS $7,834

CALIFORNIA INSTITUTE OF TECHNOLOGY

PATTERSON, CLAIR C; *THE OCCURRENCE OF COMMON LEAD IN THE OPEN OCEANS (OCE-7900696 A02)*; 8 MONTHS $45,561

TAYLOR, HUGH P, AND STAKES, DEBRA S; *HYDROTHERMAL ALTERATION OF THE OCEANIC CRUST: CHEMICAL AND MINERALOGICAL COMPARISONS OF OCEANIC GABBROS AND OPHIOLITES (OCE-8019081)*; 24 MONTHS $144,263

WASSERBURG, GERALD J; *INVESTIGATION OF THE MARINE GEOCHEMISTRY OF THE RARE EARTH ELEMENTS USING ND ISOTOPES (OCE-8108595)*; 12 MONTHS $90,554

PATTERSON, CLAIR C; *SEA-AIR EXCHANGE PROJECT:SEAREX-EXCHANGE OF PB, CA, SR, BA, K, RB, CS (OCE-8111893)*; 12 MONTHS $115,300

SAN FRANCISCO STATE UNIVERSITY

PAMATMAT, MARIO M; *ANAEROBIC METABOLISM OF MARINE BENTHOS (OCE-8003197 A01)*; 12 MONTHS $49,415

SAN JOSE STATE UNIVERSITY

MARTIN, JOHN H; *SHIP OPERATIONS SUPPORT (OCE-8022106)*; 12 MONTHS $356,188

MARTIN, JOHN H, *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-8022973)*; 12 MONTHS $28,575

MARTIN, JOHN H; *PURCHASE OF R/V CAYUSE (OCE-8117835)*; 12 MONTHS $225,000

TRW INC-TRW INC-REDONDO BEACH

YUEN, HENRY C, SAFFMAN, PHILIP G, AND LAKE, BRUCE; *INTERACTION BETWEEN A TURBULENT WIND AND FINITE AMPLITUDE WATER WAVES (OCE-8100517*)*; 12 MONTHS $163,327

UNIVERSITY OF CALIFORNIA, BERKELEY

RISEBROUGH, ROBERT W; *DETERMINATION OF HIGHER-MOLECULAR WEIGHT HYDROCARBONS IN WATER AND ON PARTICLES FROM UPPER LAYERS OF THE OCEAN (OCE-8001727 A01)*; 12 MONTHS $71,773

SOUSA, WAYNE P; *HERBIVORE-ALGAL INTERACTIONS: THE IMPORTANCE OF REFUGES (OCE-8008530)*; 24 MONTHS $58,815

UNIVERSITY OF CALIFORNIA, LOS ANGELES

HAMNER, WILLIAM M, AND W[illegible]CE, RICHARD R; *THE MARINE LAKES OF PALAU: A COLLABORATIVE INVESTIGATION (OCE-8110157)*; 12 MONTHS $29,998

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

SMITH, KENNETH L; *BIOLOGICAL ENERGETICS OF THE DEEP-SEA BENTHIC BOUNDARY LAYER (OCE-7808640 A02)*; 12 MONTHS $83,400

REID, JOSEPH L; *A STUDY OF THE DEEP CIRCULATION OF THE WORLD OCEAN (OCE-7817318 A02)*; 12 MONTHS $104,336

CUTCHIN, DAVID L; *NORTH PACIFIC EXPERIMENT (NORPAX): NORPAX TRAVEL GRANT (OCE-7825134 A02)*; 24 MONTHS $85,400

BENSON, ANDREW A; *OCEANIC ARSENIC DETOXICATION (OCE-7825707 A02)*; 12 MONTHS $40,000

RIEDEL, WILLIAM R; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: SCRIPPS INSTITUTION OF OCEANOGRAPHY (OCE-7827461 A02*)*; 12 MONTHS $42,700

GOLDBERG, EDWARD D, AND MIZIOLEK, ANDRZEJ W; *LASER ANALYSIS OF GAS PHASE METALS (OCE-7914613 A01)*; 12 MONTHS $46,686

FILLOUX, JEAN H; *MAGNETOTELLURIC EXPLORATION OF THE NORTH PACIFIC: IMPROVED RESOLUTION, DEEPER PENETRATION AND WESTWARD EXTENSION (OCE-7918382 A01)*; 12 MONTHS $143,246

NAMIAS, JEROME; *NORTH PACIFIC EXPERIMENT (NORPAX): LARGE-SCALE AND LONGTERM AIR SEA INTERACTION OVER THE PACIFIC OCEAN AND REMOTE WEATHER AND CLIMATE INFLUENCES (OCE-7919237 A01)*; 12 MONTHS $188,500

WHITE, WARREN B, AND SAUR, J F; *NORTH PACIFIC EXPERIMENT (NORPAX): LARGE SCALE STANDING AND TRAVELING WAVES IN THE SUBSURFACE TEMPERATURE FIELD IN THE EASTERN NORTH PACIFIC (OCE-7919602 A01)*; 24 MONTHS $135,068

RIEDEL, WILLIAM R, AND SANFILIPPO, ANNIKA B; *RADIOLARIAN STRATIGRAPHY, TAXONOMY AND EVOLUTION (OCE-7920265 A01)*; 12 MONTHS $87,100

WEISS, RAY F; *TRACE GASES IN THE OCEAN AND ATMOSPHERE (OCE-7920859 A01*)*; 12 MONTHS $54,896

MEYERS, GARY A, AND WHITE, WARREN B; *LARGE-SCALE VARIATION IN SUBSURFACE TEMPERATURE OF THE TROPICAL PACIFIC OCEAN (OCE-7921787 A01)*; 11 MONTHS $378,800

KNOX, ROBERT A; *TROPICAL WIND STRESS ANALYSIS (OCE-7921836 A01)*; 12 MONTHS $43,000

CUTCHIN, DAVID L; *NORTH PACIFIC EXPERIMENT (NORPAX): PROJECT ADMINISTRATION (OCE-7924358 A01)*; 12 MONTHS $92,400

WEISS, RAY F; *NORTH ATLANTIC STUDY OF THE TRANSIENT TRACERS IN THE OCEAN PROGRAM (NAS/TTO): CARBON DIOXIDE AND NITROUS OXIDE MEASUREMENTS (OCE-7925886 A01)*; 12 MONTHS $138,469

WILLIAMS, ROBERT T; *NORTH ATLANTIC STUDY OF THE TRANSIENT TRACERS IN THE OCEAN PROGRAM (NAS/TTO): SHIPBOARD ANALYSES OF HYDROGRAPHIC PROPERTIES, LOGISTICS SUPPORT, AND DATA MANAGEMENT (29E-7925890 A01)*; 12 MONTHS $43,786

WILLIAMS, PETER M, AND CARLUCCI, ANGELO F; *STUDIES ON SEA-SURFACE FILMS: CHEMISTRY AND MICROBIOLOGY OF FILM FORMATION, COMPOSITION, AND ALTERATION (OCE-7925943 A01*)*; 12 MONTHS $120,997

ORCUTT, JOHN A, AND MACDONALD, KENNETH C; *SEISMICITY OF AN OCEANIC HYDROTHERMAL VENT AREA: EAST PACIFIC RISE, 21 DEGREES NORTH (OCE-7926438 A01)*; 12 MONTHS $142,500

CRAIG, HARMON, LUPTON, JOHN E, AND CHUNG, YU-CHIA; *OCEAN-ATMOSPHERE INVESTIGATIONS (OCE-7927384 A01)*; 12 MONTHS $229,936

EPPLEY, RICHARD W; *A METHOD TO DETERMINE PHYTOPLANKTON CARBON BIOMASS AND IN SITU SPECIFIC GROWTH RATE (OCE-8008308)*; 12 MONTHS $45,853

CRAIG, HARMON, AND LUPTON, JOHN E; *OCEANIC BASALTS: RARE GAS, HYDROGEN AND CARBON CONCENTRATIONS AND ISOTOPE RATIOS (OCE-8008331)*; 24 MONTHS $159,600

MACDOUGALL, J DOUGLAS, AND LUGMAIR, GUNTER W; *ISOTOPIC STUDIES OF EAST PACIFIC RISE BASALTS (OCE-8009052 A01)*; 12 MONTHS $49,817

FENICAL, WILLIAM H; *CHEMICAL DEFENSE IN MARINE ORGANISMS (OCE-8014167)*; 12 MONTHS $78,766

WINANT, CLINTON D, AND DAVIS, RUSS E; *COASTAL OCEAN DYNAMICS EXPERIMENT (CODE): THE SMALL SCALE ARRAY (OCE-8014942 A01)*; 12 MONTHS $651,200

EPPLEY, RICHARD W; *PLANKTONIC RATE PROCESSES IN THE CENTRAL OLIGOTROPHIC OCEANS (OCE-8016894)*; 12 MONTHS $73,649

KNOX, ROBERT A, MUNK, WALTER H, WORCESTER, PETER F, AND ZETLER, BERNARD D; *DEVELOPMENT AND TESTING OF ACOUSTIC TECHNIQUES FOR STUDIES OF LARGE-SCALE OCEAN VARIABILITY (OCE-8017575)*; 12 MONTHS $352,000

MAMMERICKX, JACQUELIN E; *BATHYMETRY OF THE NORTHEAST PACIFIC (OCE-8018169)*; 12 MONTHS $40,935

LONSDALE, PETER F, AND MOORE, GREGORY F; *MIDDLE AMERICA TRENCH: RECENT TECTONICS AND STRUCTURE (OCE-8018195)*; 12 MONTHS $139,453

LONSDALE, PETER F, AND MOORE, GREGORY F; *MIDDLE AMERICAN TRENCH: RECENT TECTONICS & STRUCTURE (OCE-8018195 A01)*; 3 MONTHS $24,994

KASTNER, MIRIAM; *MINERALOGY AND GEOCHEMISTRY OF HYDROTHERMAL DEPOSITS: EAST PACIFIC RISE, 21' NORTH (OCE-8018321)*; 24 MONTHS $110,676

THIERSTEIN, HANS R; *MESOZOIC CALCAREOUS MICRO- AND NANNOFOSSILS: PALEOCEANOGRAPHIC AND PALEOCLIMATIC IMPLICATIONS (OCE-8018515)*; 24 MONTHS $109,000

HAWKINS, JAMES W; *EVOLUTION OF ARC-BACKARC SYSTEMS--GEOCHEMICAL & PETROLOGICAL STUDIES, MARIANA TROUGH AND MARIANA TRENCH (OCE-8019016)*; 15 MONTHS $49,900

KNOX, ROBERT A, AND REGIER, LLOYD A; *NORTH PACIFIC EXPERIMENT (NORPAX): ANALYSIS OF EQUATORIAL UPPER OCEAN CURRENTS MEASURED WITH SHIP'S ACOUSTIC LOG (OCE-8019766)*; 12 MONTHS $64,000

SHOR, GEORGE G; *OCEANOGRAPHIC INSTRUMENTATION (OCE-8021117)*; 12 MONTHS $38,960

SHOR, GEORGE G; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-8022118)*; 12 MONTHS $32,800

RIEDEL, WILLIAM R, AND DOYLE, PATRICIA S; *INTERPRETATION OF MICROSCOPIC FISH SKELETAL DEBRIS IN CENOZOIC AND MESOZOIC PELAGIC SEDIMENTS (OCE-8022236)*; 12 MONTHS $54,600

KEELING, CHARLES D; *NORTH ATLANTIC STUDY OF THE TRANSIENT TRACERS IN THE OCEAN PROGRAM (NAS/TTO) - MEASUREMENTS OF CO2 TO HIGH ACCURACY IN THE NORTH ATLANTIC (OCE-8022861)*; 12 MONTHS $66,016

SHOR, GEORGE G; *SHIPBOARD TECHNICIAN SUPPORT (OCE-8022996)*; 12 MONTHS $256,067

ARMI, LAURENCE D; *TRANSIENT TRACERS IN THE OCEAN: OCEAN MIXING AND CIRCULATION (OCE-8023501)*; 12 MONTHS $74,605

GIESKES, JORIS M; *GEOCHEMISTRY OF OCEANIC SEDIMENTS AND IGNEOUS ROCKS: PORE WATER CHEMISTRY (OCE-8023966)*; 12 MONTHS $56,401

TSUCHIYA, MIZUKI; *SUBTROPICAL CIRCULATION OF THE NORTH PACIFIC OCEAN (OCE-8024072)*; 12 MONTHS $48,454

SOMERO, GEORGE N; *BIOCHEMICAL AND PHYSIOLOGICAL CHARACTERISTICS OF THE HYDROTHERMAL VENT COMMUNITY ANIMALS (OCE-8024251)*; 12 MONTHS $90,894

GOLDBERG, EDWARD D; *240PU/239PU RATIOS, A GEOCHRONOLOGICAL TOOL FOR MARINE STUDIES (OCE-8024340)*; 12 MONTHS $75,500

KNOX, ROBERT A; *NORTH PACIFIC EXPERIMENT (NORPAX): ANALYSIS OF WIND AND UPPER OCEAN CURRENT MEASUREMENTS FROM THE NORPAX EQUATORIAL SHUTTLE EXPERIMENT (OCE-8024369)*; 12 MONTHS $83,900

SHOR, GEORGE G; *SHIP OPERATIONS SUPPORT (OCE-8024472*)*; 12 MONTHS $1,131,168

SHOR, GEORGE G; *SHIP OPERATIONS SUPPORT (OCE-8024472 A01)*; 12 MONTHS $2,050,000

SHOR, GEORGE G; *SHIP OPERATIONS SUPPORT (OCE-8024472 A02)*; 6 MONTHS $52,974

BERGER, WOLFGANG H, VINCENT, EDITH S, AND KILLINGLEY, JOHN S; *DEEP-SEA CARBONATES: ACCUMULATION, DISSOLUTION, AND CARBON DIOXIDE FLUX (OCE-8024610*)*; 12 MONTHS $116,800

KASTNER, MIRIAM; *DIAGENESIS OF BIOGENIC SILICA: DSDP SITES IN THE GULF OF CALIFORNIA (OCE-8024630)*; 24 MONTHS $62,840

HAWKINS, JAMES W; *PETROLOGY AND GEOCHEMISTRY OF ZAMBALES RANGE OPHIOLITE COMPLEX, LUZON, REPUBLIC OF THE PHILIPPINES (SEATAR) (OCE-8024894)*; 9 MONTHS $32,054

SMITH, KENNETH L; *PROGRAM FACILITIES SUPPORT FOR BIOLOGICAL STUDIES OF HYDROTHERMAL VENTS (OCE-8024895)*; 24 MONTHS $344,505

SMITH, KENNETH L; *ECOLOGICAL ENERGETIC STUDIES OF A DEEP SEA HYDROTHERMAL VENT COMMUNITY ON THE EAST PACIFIC RISE AT 21 DEGREES NORTH (OCE-8024896)*; 12 MONTHS $106,307

HESSLER, ROBERT R; *COMMUNITY STRUCTURE AND SMALL SCALE DISTRIBUTION OF BENTHIC MEGAFAUNA AT 21 DEGREES N, EAST PACIFIC RISE (OCE-8024901)*; 12 MONTHS $50,469

EPPLEY, RICHARD W; *THE USE OF STABLE ISOTOPES TO DISSECT POLLUTANT PATHWAYS AND FOOD WEBS IN MARINE PLANKTON (OCE-8026040)*; 12 MONTHS $49,999

WEISS, RAY F; *MANOP BOTTOM LANDER PROJECT (OCE-8026727*)*; 12 MONTHS $480,048

PATZERT, WILLIAM C, AND MCNALLY, GERARD J; *NORTH PACIFIC EXPERIMENT (NORPAX): A DRIFTING BUOY STUDY OF THE PACIFIC NORTH EQUATORIAL CURRENT AND COUNTERCURRENT IN 1979 AND 1980 (OCE-8100628)*; 12 MONTHS $158,995

NEALSON, KENNETH H; *STUDIES OF MANGANESE OXIDIZING BACTERIA AND ASSESSMENT OF THEIR ROLE IN MARINE MANGANESE DEPOSITION (OCE-8100641*)*; 12 MONTHS $60,906

SPIESS, FRED N, AND LONSDALE, PETER F; *IDOE MANGANESE NODULE PROGRAM (DEEP TOW SURVEYS) (OCE-8101847*)*; 12 MONTHS $86,500

MEYERS, GARY A; *NORTH PACIFIC EXPERIMENT (NORPAX): SPATIAL SCALES OF INTERANNUAL, ANNUAL AND HIGHER FREQUENCY TEMPERATURE VARIABILITY OBSERVED DURING THE HAWAII-TAHITI SHUTTLE ETC. (OCE-8105039)*; 12 MONTHS $53,782

CURRAY, JOSEPH R, AND MOORE, GREGORY F; *THE SUNDA TRANSECT, PART II: CENTRAL JAVA TRANSECT (OCE-8106597)*; 7 MONTHS $50,904

FILLOUX, JEAN H; *OBSERVATION OF TIDAL AND OTHER PRESSURE FLUCTUATIONS ON THE OPEN OCEAN FLOOR (OCE-8106844)*; 12 MONTHS $84,096

SHOR, GEORGE G, MOORE, GREGORY F, AND CURRAY, JOSEPH R; *THE SUNDA TRANSECT, PART I: CENTRAL SUMATRA TRANSECT (OCE-8108391)*; 7 MONTHS $74,070

HENDERSHOTT, MYRL C; *NORMAL MODES OF THE PACIFIC: OBSERVATIONS AND THEORY (OCE-8108703)*; 12 MONTHS $116,767

ORCUTT, JOHN A, AND MCCLAIN, JAMES S; *EAST PACIFIC RISE STUDY: MARINE SEISMOLOGY (OCE-8108971)*; 12 MONTHS $194,000

TSUCHIYA, MIZUKI; *TROPICAL AND SUBTROPICAL CIRCULATION OF THE ATLANTIC OCEAN (OCE-8109273)*; 12 MONTHS $50,093

HEY, RICHARD N, AND SPIESS, FRED N; *GALAPAGOS RIFT SYSTEM: HIGH RESOLUTION STUDY OF PROPAGATING RIFTS (OCE-8109927)*; 12 MONTHS $65,500

CURRAY, JOSEPH R; *THE BURMA AND ANDAMAN TRANSECTS, SUNDA ARC (OCE-8110696)*; 12 MONTHS $30,000

CHUNG, YU-CHIA, AND FINKEL, ROBERT C; *HYDROTHERMAL FLUIDS AND PRECIPITATES FROM THE EAST PACIFIC RISE: URANIUM AND THORIUM SERIES RADIOISOTOPES STUDY (OCE-8111145)*; 12 MONTHS $43,810

CHENG, LANNA; *HALOBATES IN THE DIET OF SEABIRDS (OCE-8112894)*; 12 MONTHS $9,997

FISHER, FREDERICK H; *ION ASSOCIATION IN SEAWATER (OCE-8113068)*; 12 MONTHS $69,990

UNIVERSITY OF CALIFORNIA, SAN DIEGO

SUESS, HANS E, AND DRUFFEL, ELLEN; *INVESTIGATIONS OF RADIOCARBON IN ANNUAL CORAL RINGS (OCE-7917652 A01)*; 12 MONTHS $61,500

AZAM, FAROOQ; *ROLE OF BACTERIA IN THE MARINE PLANKTONIC FOOD CHAIN: MICROBIAL INTERACTIONS WITH ZOOPLANKTON FECES (OCE-8101807)*; 12 MONTHS $42,861

DELUCA, MARLENE; *COMPOUND-SPECIFIC ANALYSIS OF DISSOLVED ORGANIC CARBON IN SEAWATER USING ENZYME SYSTEMS COUPLED TO IMMOBILIZED BACTERIAL LUCIFERASE (OCE-8109938)*; 12 MONTHS $34,029

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

ROBISON, BRUCE H; *A STUDY OF THE VERTICAL TRANSPORT OF ORGANIC MATERIALS IN THE OCEANIC WATER COLUMN BY MIDWATER FISHES (OCE-7809018 A03)*; 6 MONTHS $22,202

CHARTERS, ALEXANDER C, AND NEUSHUL, MICHAEL; *CONTINUED STUDIES OF HYDRODYNAMIC INTERACTIONS BETWEEN MARINE PLANTS AND THE WATER AROUND THEM (OCE-7909241 A03)*; $20,542

COX, JAMES L; *AN INVESTIGATION OF THE INVERSE BIOMASS DENSITY EFFECT IN LAMINARINASE ACTIVITY OF ZOOPLANKTON GRAZERS (OCE-7909317 A01)*; $6,314

MACDONALD, KENNETH C; *VEMA TRANSFORM FAULT: STRUCTURE AND TECTONICS (OCE-8018433)*; 12 MONTHS $169,537

ALLDREDGE, ALICE L, AND SILVER, MARY W; *ECOLOGICAL STUDIES OF MARINE SNOW AND ASSOCIATED ALGAE FROM THE DEEP SEA (OCE-8019524)*; 24 MONTHS $26,141

KURIS, ARMAND M; *THE ROLE OF PARASITES IN MARINE ECOSYSTEMS (OCE-8023692)*; 12 MONTHS $31,681

CHILDRESS, JAMES J; *STUDIES ON THE METABOLISM OF HYDROTHERMAL VENTS ANIMALS (OCE-8024259)*; 12 MONTHS $170,567

ALLDREDGE, ALICE L; *ECOLOGY OF HERBIVOROUS ZOOPLANKTON: CONTINUED STUDIES ON THE IMPACT OF APPENDICULARIAN GRAZING IN SITU (OCE-8024317)*; 24 MONTHS $141,687

FULLER, MICHAEL D; *EQUIPMENT GRANT: HORIZONTAL ACCESS CRYOGENIC MAGNETOMETER SYSTEM (OCE-8024927)*; 12 MONTHS $20,000

CHARTERS, ALEXANDER C, AND NEUSHUL, MICHAEL; *STUDIES OF THE INTERACTION BETWEEN MARINE MACROALGAE AND WATER MOTION (OCE-8108986)*; 7 MONTHS $32,400

COX, JAMES L; *A STUDY OF SMALL SCALE HETEROGENEITY IN MARINE ZOOPLANKTON GRAZING USING B-1, 3 GLUCANOHYDROLASE ACTIVITY TO DETERMINE GRAZING RATE (OCE-8109934)*; 24 MONTHS $92,003

CHILDRESS, JAMES J; *STUDIES ON THE ECOLOGICAL PHYSIOLOGY OF MIDWATER CRUSTACEANS (OCE-8110154)*; 12 MONTHS $121,725

ALLDREDGE, ALICE L, AND ROBISON, BRUCE H; *IN SITU STUDIES OF MESOPELAGIC BIOLOGY: MANAGEMENT AND FACILITIES (OCE-8112860*)*; 12 MONTHS $256,134

LUPTON, JOHN E; *HELIUM-3 STUDIES OF THE ROCKS AND WATER COLUMN FROM THE JUAN DE FUCA RIDGE (OCE-8117049*)*; 24 MONTHS $62,706

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

SILVER, MARY W; *ECOLOGICAL STUDIES OF MARINE SNOW (OCE-7919244 A01)*; 6 MONTHS $4,000

BRULAND, KENNETH W; *STUDIES ON THE SCAVENGING OF CHEMICAL ELEMENTS AND RADIONUCLIDES IN OCEANIC SURFACE WATERS (OCE-7919928 A01)*; 12 MONTHS $76,470

SILVER, ELI A; *BACK-ARC THRUSTING AND COLLISION TECTONICS IN THE EASTERN SUNDA ARC, INDONESIA (OCE-8018575)*; 24 MONTHS $140,613

MOORE, J CASEY; *SYNTHESIS OF STRUCTURAL FABRICS FROM DSDP CORES FROM ACTIVE MARGINS: ORIGIN OF FABRICS AND SIGNIFICANCE FOR ANCIENT SUBDUCTION COMPLEXES (OCE-8116594*)*; 24 MONTHS $120,000

UNIVERSITY OF SOUTHERN CALIFORNIA

KEACH, DONALD L, AND VEEK, EUGENE B; *SHIPBOARD TECHNICIAN SUPPORT (OCE-7724529 A03)*; 6 MONTHS $10,000

GORSLINE, DONN S; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: UNIVERSITY OF SOUTHERN CALIFORNIA (OCE-7825878 A02*)*; 12 MONTHS $15,720

PIEPER, RICHARD E; *STUDIES OF OCEAN VOLUME REVERBERATION AT HIGH ACOUSTIC FREQUENCIES (OCE-7924975 A01)*; 12 MONTHS $126,001

GORSLINE, DONN S, DOUGLAS, ROBERT G, AND KU, TEH-LUNG; *LATE PLEISTOCENE AND HOLOCENE ENVIRONMENTAL HISTORY OF THE CALIFORNIA CONTINENTAL BORDERLAND (OCE-8020290)*; 12 MONTHS $164,600

KEACH, DONALD L, NEWMAN, DONALD L, AND VEEK, EUGENE B; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-8021917)*; 12 MONTHS $23,382

KEACH, DONALD L, NEWMAN, DONALD L, AND VEEK, EUGENE B; *OCEANOGRAPHIC INSTRUMENTATION (OCE-8021918)*; 12 MONTHS $5,300

KEACH, DONALD L, AND VEEK, EUGENE B; *SHIP OPERATIONS SUPPORT (OCE-8022117)*; 12 MONTHS $540,000

JONES, B H, DUGDALE, RICHARD C, CRUZADO, A, AND MACISAAC, JANE J; *PHYTOPLANKTON AND NUTRIENT DISTRIBUTIONS IN THREE-DIMENSIONAL UPWELLING CENTERS (OCE-8022651)*; 12 MONTHS $235,176

KU, TEH-LUNG; *STUDIES OF BE-10/BE-9 AND DECAY-SERIES NUCLIDES (OCE-8100662*)*; 12 MONTHS $89,519

KU, TEH-LUNG; *STUDIES OF STABLE ISOTOPES IN LIVE BENTHIC FORAMINIFERA (OCE-8111948)*; 12 MONTHS $44,843

COLORADO

UNIVERSITY OF COLORADO AT BOULDER

KRAUS, ERIC B; *THE TURBULENT ENERGY FLUX AND THE HEAT STORAGE IN THE UPPER OCEAN (ISE-8109022*)*; 12 MONTHS $20,400

CONNECTICUT

UNIVERSITY OF CONNECTICUT-MARINE RESEARCH LABORATORY

WHITLATCH, ROBERT B; *MARINE BENTHIC COMMUNITY STRUCTURE: SMALL-SCALE SPATIAL PATTERNS IN SPIONIDS (OCE-8018447)*; 24 MONTHS $36,714

UNIVERSITY OF CONNECTICUT-MARINE SCIENCES INSTITUTE

FITZGERALD, WILLIAM F; *SEA-AIR EXCHANGE PROJECT (SEAREX) - AIR-SEA EXCHANGE OF MERCURY (OCE-8112104)*; 12 MONTHS $51,328

UNIVERSITY OF CONNECTICUT

CASWELL, HAL; *THE INTERFACE BETWEEN POPULATION INTERACTIONS AND COMMUNITY STRUCTURE (OCE-7619278 A02)*; $32,791

YALE UNIVERSITY

RHOADS, DONALD C; *ESTUARINE TURBIDITY: BIOGENIC PROCESSES CONTROLLING CHANGES IN SEAFLOOR ERODIBILITY (OCE-7826211 A02*)*; 12 MONTHS $55,481

PROVASOLI, LUIGI; *COLLABORATIVE RESEARCH: ISOLATION, CULTURE AND CHARACTERIZATION OF OCEANIC ULTRAPLANKTON ALGAE (OCE-8007840 A01)*; 12 MONTHS $82,075

TUREKIAN, KARL K; *URANIUM AND THORIUM DECAY SERIES NUCLIDES: DEVELOPMENT OF AGE DATING TECHNIQUE FOR VERY YOUNG OCEANIC BASALTS (OCE-8017298)*; 24 MONTHS $59,014

BUSS, LEO W; *DOCTORAL DISSERTATION RESEARRCH: PATTERNS & PROCESSES OF LIFE HISTORIES AND OVERGROWTHS OF TWO COMPOUND ASCIDIANS, BOTRYLLUS SCHLOSSERI & BOTRYLLOIDES DIEGENSE, WOODSHOLE, MA (OCE-8019304)*; 18 MONTHS $9,616

VERONIS, GEORGE; *GENERAL OCEAN CIRCULATION AND GEOPHYSICAL FLUID DYNAMICS (OCE-8109021)*; 12 MONTHS $60,000

BERNER, ROBERT A; *SULFATE REDUCTION AND PYRITE FORMATION IN ANOXIC MARINE SEDIMENTS (OCE-8109454)*; 12 MONTHS $43,042

TUREKIAN, KARL K; *SEA-AIR EXCHANGE PROJECT (SEAREX) - 210PB AND 210PO AS ATMOSPHERIC FLUX AND SOURCE INDICATORS (OCE-8113153)*; 12 MONTHS $22,489

DELAWARE

UNIVERSITY OF DELAWARE-COLLEGE OF MARINE STUDIES

WU, JIN; *SMALL - SCALE STRUCTURE OF THE SEA SURFACE (OCE-7919180 A02)*; 12 MONTHS $50,000

CHURCH, THOMAS M; *TRACE METAL CYCLING IN SALT WATER MARSHES (OCE-7920893 A02*)*; 12 MONTHS $107,207

CARRIKER, MELBOURNE R; *DOCTORAL DISSERTATION RESEARCH: THE ROLE OF BIOLOGICAL INTERACTIONS IN THE TROPHIC ECOLOGY OF THE DEPOSIT-FEEDING (OCE-8024139)*; 12 MONTHS $5,950

GARVINE, RICHARD W; *FIELD STUDY OF HYDROGRAPHIC AND CURRENT FIELDS OF THE SHELF/SLOPE FRONT (OCE-8110404)*; 18 MONTHS $160,000

TYLER, MARY A; *HYDROGRAPHY-MEDIATED ENCYSTMENT AND EXCYSTMENT OF TWO ESTUARINE DINOFLAGELLATES (OCE-8118135)*; 12 MONTHS $84,797

UNIVERSITY OF DELAWARE

SHERIDAN, ROBERT E; *COLLABORATIVE RESEARCH ON BAHAMA CARBONATE BANKS: STRUCTURE AND TECTONICS: PHASE II (OCE-7925346 A01)*; 24 MONTHS $54,075

SHARP, JONATHAN H; *ORGANIC CHEMISTRY OF THE ESTUARINE MIXING PRODUCT (OCE-8009835 A01)*; 12 MONTHS $27,625

TRIPP, MARENES R; *HISTOPATHOLOGY, HISTOCHEMISTRY AND IMMUNITY AS INDICATORS OF CHEMICAL STRESS (OCE-8016644)*; 12 MONTHS $91,128

GLASS, BILLY P; *THE RELATIONSHIP BETWEEN TEKTITE FALLS AND OTHER EARTH EVENTS AS RECORDED IN DEEP-SEA SEDIMENTS (OCE-8106812)*; 24 MONTHS $48,620

DISTRICT OF COLUMBIA

AMERICAN GEOPHYSICAL UNION

PRESNALL, DEAN C; *TRAVEL OF STUDENTS AND FOREIGN SCIENTISTS TO A CHAPMAN CONFERENCE ON GENERATION OF THE OCEANIC LITHOSPHERE (EAR-8018347*)*; 6 MONTHS $3,000

CATHOLIC UNIVERSITY OF AMERICA

KAO, TIMOTHY W; *STRUCTURE OF SHELF WATER DUE TO FRESHWATER DISCHARGE AND WIND (OCE-7925061 A01)*; 12 MONTHS $31,880

COURTESY TRAVEL SERVICE

LYNCH, LOUISE; *TRAVEL AND ADMINISTRATIVE SERVICES IN SUPPORT OF THE INTERNATIONAL SCIENCE ACTIVITIES SPONSORED BY THE NATIONAL SCIENCE FOUNDATION (INT-8018782 A03*)*; 4 MONTHS $30,000

MARITIME ADMINISTRATION

KYLE, BURTON; *AN INSPECTION PROGRAM FOR NSF SHIPS (OCE-8101590)*; 12 MONTHS $49,500

FLORIDA

FLORIDA STATE UNIVERSITY

ANDREAE, MEINRAT O; *THE BIOGEOCHEMISTRY OF TIN IN THE MARINE ENVIRONMENT (OCE-7920183 A01)*; 12 MONTHS $28,425

LIVINGSTON, ROBERT J; *DOCTORAL DISSERTATION RESEARCH: TROPHIC RESPONSE OF DECAPOD CRUSTACEA TO MACROPHYTE COMPLEXITY IN SEAGRASS BEDS (OCE-7921982)*; 12 MONTHS $4,630

WHITE, DAVID C; *RELATIONSHIP BETWEEN THE BIOMASS, PHYSIOLOGICAL STATUS AND COMMUNITY STRUCTURE OF THE DETRITAL AND SEDIMENTARY MICROBIOTA AND THE BASE OF THE ESTUARINE FOOD WEB (OCE-8019757)*; 24 MONTHS $87,478

STUART, DAVID W; *METEOROLOGICAL AND AIRCRAFT SUPPORT OF ORGANIZATION OF PERSISTENT UPWELLING STRUCTURES (OCE-8021029)*; 12 MONTHS $73,917

FROELICH, PHILIP N, AND ANDREAE, MEINRAT O; *THE MARINE GEOCHEMISTRY OF GERMANIUM (OCE-8025223)*; 12 MONTHS $35,990

FROELICH, PHILIP N; *MARINE MANGANESE PALEOGEOCHEMISTRY/PALEOPRODUCTIVITY (OCE-8105099)*; 24 MONTHS $94,453

NOVA UNIVERSITY-OCEAN SCIENCE CENTER

MCCREARY, JULIAN P; *NORTH PACIFIC EXPERIMENT (NORPAX): A MODEL OF TROPICAL OCEAN-ATMOSPHERE COUPLING (OCE-7919698 A02)*; 12 MONTHS $57,000

MCCREARY, JULIAN P; *STUDIES OF TROPICAL WIND-DRIVEN OCEAN CIRCULATION (OCE-7921785 A01)*; 12 MONTHS $53,000

CHAO, SHENN-YU, AND MCCREARY, JULIAN P; *MODELS OF THE INTERACTION OF BAROCLINIC CURRENTS WITH OCEAN BOUNDARIES (OCE-8023790)*; 12 MONTHS $39,588

KUNDU, PIJUSH; *DYNAMICAL STUDIES OF TURBULENT FLOWS IN THE OCEAN (OCE-8102955)*; 12 MONTHS $56,570

UNIVERSITY OF FLORIDA

BATES, ROGER G; *SOLUTION CHEMISTRY OF SEAWATER (OCE-7922029 A01)*; 12 MONTHS $32,741

UNIVERSITY OF MIAMI-SCHOOL OF MARINE & ATMOSPHERIC SCIENCES

OSTLUND, H G; *GEOCHEMICAL OCEAN SECTIONS STUDY (GEOSECS) INDIAN OCEAN RADIOCARBON AND TRITIUM (OCE-7724039 A04)*; $11,500

FINE, RANA A, AND OSTLUND, H G; *NORTH PACIFIC EXPERIMENT (NORPAX): EXCHANGE RATES OF EQUATORIAL WATERS FROM TRITIUM STUDIES (OCE-7822120 A02)*; 12 MONTHS $39,900

GRUBER, SAMUEL H; *THE ROLE OF THE LEMON SHARK NEGAPRION BREVIROSTUS (POEY) AS A PREDATOR IN THE TROPICAL MARINE ECOSYSTEM (OCE-7826819 A02)*; 1 MONTHS $4,486

GIBBONS, JAMES; *CONSTRUCTION AND ASSIGNMENT OF COASTAL ZONE RESEARCH VESSEL (OCE-7913812 A03)*; 6 MONTHS $187,644

MILLERO, FRANK J; *DETERMINATION OF THE SOLUBILITY OF CALCITE AND ARAGONITE IN SEAWATER (OCE-7919242 A01)*; 12 MONTHS $106,048

MILLERO, FRANK J, AND LO SURDO, ANTONIO; *THE EFFECT OF PRESSURE ON THE SOLUBILITY OF CALCITE AND ARAGONITE IN SEAWATER (OCE-7919245 A01)*; 12 MONTHS $48,107

MILLERO, FRANK J; *STUDY OF IONIC INTERACTIONS IN SEAWATER (OCE-7924543 A01)*; 12 MONTHS $85,187

OSTLUND, H G; *NORTH ATLANTIC STUDY OF THE TRANSIENT TRACERS IN THE OCEAN PROGRAM (NAS/TTO): RADIOCARBON AND TRITIUM MEASUREMENTS (29E-7925889 A01)*; 12 MONTHS $130,181

GINSBURG, ROBERT N; *REGIONAL SYNTHESIS OF PLIO-PLEISTOCENE CARBONATES, BAHAMAS ARCHIPELAGO (EAR-7927212 A01*)*; $3,871

KING, KENNETH R; *NUTRITIONAL ECOLOGY OF MARINE PLANKTONIC CARNIVORES (OCE-8008355 A01)*; 12 MONTHS $84,205

ROMAN, MICHAEL R; *IN SITU GRAZING OF MICRO-ZOOPLANKTON IN WARM CORE GULF STREAM RINGS (OCE-8016646*)*; 12 MONTHS $84,081

LEAMAN, KEVIN D, OLSON, DONALD B, BROWN, OTIS B, AND EVANS, ROBERT H; *PHYSICAL MEASUREMENTS AND ANALYSIS OF WARM CORE RINGS (OCE-8016991*)*; 12 MONTHS $287,065

CUHEL, RUSSELL L, AND ORTNER, PETER B; *MEASUREMENT OF CARBON AND SULFUR METABOLISM IN MARINE PHYTOPLANKTON AND BACTERIA WITH RESPECT TO GROWTH AND NUTRITIONAL STATUS OF NATURAL ASSEMBLAGES (OCE-8018444)*; 24 MONTHS $92,531

OLSON, DONALD B; *THE ROLE OF RINGS IN THE CIRCULATION OF THE NORTHWESTERN ATLANTIC (OCE-8018736)*; 12 MONTHS $60,809

SCHLAGER, WOLFGANG; *THE PROBLEM OF CARBONATE DEEP-SEA FANS IN THE BAHAMAS (OCE-8019266)*; 24 MONTHS $67,072

SCHLAGER, WOLFGANG; *THE PROBLEM OF CARBONATE DEEP-SEA FANS IN THE BAHAMAS (OCE-8019266 A01)*; $12,166

GIBBONS, JAMES; *SHIP OPERATIONS SUPPORT (OCE-8022420)*; 12 MONTHS $1,357,400

GIBBONS, JAMES; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-8023172)*; 12 MONTHS $10,500

GIBBONS, JAMES; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-8023172 A01)*; $104,551

GIBBONS, JAMES; *OCEANOGRAPHIC INSTRUMENTATION (OCE-8023174)*; 12 MONTHS $15,000

MARSZALEK, DONALD S; *EQUIPMENT GRANT: SCANNING ELECTRON MICROSCOPE SYSTEM (OCE-8023340*)*; 12 MONTHS $40,000

GIBBONS, JAMES; *OUTFITTING THE COASTAL ZONE RESEARCH VESSEL (OCE-8023373)*; 12 MONTHS $102,781

LEAMAN, KEVIN D; *OBSERVATION AND ANALYSIS OF INTERNAL SHELF TIDES IN THE SOUTH ATLANTIC BIGHT (OCE-8023700)*; 12 MONTHS $36,732

TAPPERT, FREDERICK D; *MODAL THEORY OF WAVE PROPAGATION IN REFRACTING RANDOM MEDIA WITH APPLICATIONS TO OCEANS (MCS-8023749*)*; 12 MONTHS $19,436

GIBBONS, JAMES; *SHIPBOARD TECHNICIAN SUPPORT (OCE-8023976)*; 12 MONTHS $135,923

HARRISON, CHRIS, AND SOUTHAM, JOHN R; *THE RELATIONSHIP OF CLIMATE, SEDIMENTATION, AND THE GEOCHEMISTRY OF SEDIMENTS TO GLOBAL TECTONICS (OCE-8024401)*; 12 MONTHS $73,178

FINE, RANA A, OSTLUND, H G, AND PETERSON, WILLIAM H; *EQUATORIAL MIXING FROM TRITIUM DATA (OCE-8024904)*; 12 MONTHS $67,071

GINSBURG, ROBERT N; *FOUNDATIONS OF LAGOON REEFS IN BELIZE (BRITISH HONDURAS) (EAR-8025886*)*; 12 MONTHS $8,100

BOUDRA, DOUGLAS B, BLECK, RAINER, AND ROOTH, CLAES G; *CONTINUED DEVELOPMENT OF A DENSITY COORDINATE MODEL FOR STUDY OF OCEAN CIRCULATION AND HEAT TRANSPORT (OCE-8026010)*; 12 MONTHS $70,991

GRUBER, SAMUEL H, AND LUTZ, PETER L; *ROLE OF THE LEMON SHARK NEGAPRION BREVIROSTRIS (POEY) IN THE TROPICAL MARINE ENVIRONMENT: A MULTIDISCIPLINARY STUDY (OCE-8110400)*; 12 MONTHS $71,816

BRASS, GARRETT W, SOUTHAM, JOHN R, AND PETERSON, WILLIAM H; *STUDIES OF PRODUCTION AND CIRCULATION OF WARM SALTY BOTTOM WATER IN ANCIENT OCEANS (OCE-8111149)*; 12 MONTHS $79,999

PROSPERO, JOSEPH M; *SEA-AIR EXCHANGE PROJECT (SEAREX) - SOIL AEROSOL TRANSPORT TO THE PACIFIC OCEAN (OCE-8112106)*; 12 MONTHS $86,799

UNIVERSITY OF MIAMI

GIBBONS, JAMES; *CONSTRUCTION AND ASSIGNMENT OF COASTAL ZONE RESEARCH VESSEL (OCE-7913812 A02)*; 12 MONTHS $247,509

PROSPERO, JOSEPH M; *EOLIAN TRANSPORT OF SEDIMENTS TO THE OCEANS: GLOMAR CHALLENGER SAMPLES (OCE-8008354)*; 24 MONTHS $101,925

GIBBONS, JAMES; *OPERATION AND MAINTENANCE OF THE NATIONAL SCIENCE FOUNDATION OWNED COASTAL ZONE RESEARCH VESSEL, HULL NO. 185 (OCE-8110680)*; 60 MONTHS $1

EMILIANI, CESARE, BARRON, ERIC, HAY, WILLIAM W, AND PRICE, DAVID *CRETACEOUS PALEOTEMPERATURE DATA FROM GLOBALLY DISTRIBUTED INOCERAMUS REMAINS IN DSDP CORES (OCE-8111909)*; 12 MONTHS $36,083

GIBBONS, JAMES; *MODIFICATIONS TO R/V COLUMBUS ISELIN (OCE-8114709)*; 12 MONTHS $279,000

UNIVERSITY OF SOUTH FLORIDA-MARINE SCIENCE INSTITUTE

GUST, GISELHER; *HELICAL FLOWS IN SMOOTH, STRAIGHT OPEN CHANNELS WITH HIGH ASPECT-RATIO: A TEST FOR EXISTENCE AND GENESIS (OCE-7925971*)*; 12 MONTHS $9,553

SACKETT, WILLIAM M; *THE MARINE ORGANIC GEOCHEMISTRY OF STABLE HYDROGEN ISOTOPES (OCE-8002455 A01)*; 12 MONTHS $34,913

UNIVERSITY OF SOUTH FLORIDA

HOPKINS, THOMAS L; *TROPHODYNAMICS OF MESOPELAGIC FISHES AND SHRIMPS IN THE GULF OF MEXICO (OCE-8008329)*; 24 MONTHS $50,259

BYRNE, ROBERT H; *STUDY OF CHEMICAL COMPLEXATION MODELS: TRACE METALS IN MULTICOMPONENT SOLUTIONS (OCE-8110162)*; 12 MONTHS $41,961

GEORGIA

SKIDAWAY INSTITUTE OF OCEANOGRAPHY

TENORE, KENNETH R; *FOOD CHAIN DYNAMICS OF DETRITAL FEEDING BENTHOS (OCE-7825862 A03)*; 12 MONTHS $64,148

PAFFENHOFER, GUSTAV A; *THE RELATION OF PLANKTONIC COPEPODS TO FOOD RESOURCES ON THE SOUTHEASTERN CONTINENTAL SHELF (OCE-7925055 A01)*; $23,189

WINDOM, HERBERT L, AND WALLACE, GORDON T; *EQUIPMENT PROPOSAL FOR ATOMIC ABSORPTION SPECTROPHOTOMETER (OCE-8016185)*; 12 MONTHS $25,000

LEE, RICHARD F; *RESPONSES OF DETOXIFICATION/TOXIFICATION SYSTEMS IN MARINE INVERTEBRATES TO ORGANIC POLLUTION (OCE-8017893)*; 12 MONTHS $112,880

MENZEL, DAVID W; *MARINE TECHNICIAN SUPPORT (OCE-8021108)*; 12 MONTHS $25,000

MENZEL, DAVID W; *IMPROVEMENTS FOR BASIC SHIP OPERATIONS (OCE-8021110)*; 12 MONTHS $10,000

MENZEL, DAVID W; *SHIP OPERATIONS SUPPORT (OCE-8021111)*; 12 MONTHS $87,750

HOWARD, JAMES D, AND DE PRATTER, CHESTER B; *LATE HOLOCENE HISTORY OF THE GEORGIA COAST, USA (OCE-8109598)*; 36 MONTHS $245,000

WALLACE, GORDON T; *PROCESSES AFFECTING THE HORIZONTAL AND VERTICAL DISTRIBUTION OF TRACE ELEMENTS IN THE GULF STREAM AND BLAKE PLATEAU (OCE-8110405)*; 12 MONTHS $71,143

UNIVERSITY OF GEORGIA

PAYNE, WILLIAM J; *DENITRIFICATION IN SALT MARSH AND IN BACTERIAL CELLS AND EXTRACTS (OCE-7919550 A02*)*; 12 MONTHS $68,820

PORTER, JAMES W; *ZOOPLANKTON FEEDING IN REEF CORALS (OCE-8019520)*; 12 MONTHS $19,725

POMEROY, LAWRENCE R; *THE ROLE OF PELAGIC TUNICATES IN THE PRODUCTION AND FATE OF ORGANIC AGGREGATES (OCE-8110707)*; 24 MONTHS $191,749

PORTER, JAMES W; *LONG-TERM ANALYSIS OF BENTHIC POPULATION AND COMMUNITY DYNAMICS ON A CORAL REEF (OCE-8110918)*; 24 MONTHS $158,587

HAWAII

OCEANIC INSTITUTE

BIENFANG, PAUL K; *PHYTOPLANKTON SINKING: FIELD AND LABORATORY ANALYSIS OF BIOGENIC TRANSPORT RATES (OCE-8100679)*; 12 MONTHS $68,789

UNIVERSITY OF HAWAII-MANOA

THEYER, FRITZ; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: UNIVERSITY OF HAWAII (OCE-7825453 A03*)*; 12 MONTHS $18,400

THEYER, FRITZ; *BIOSTRATIGRAPHY OF PACIFIC DEEP-SEA SEDIMENTS: RADIOLARIAN DATUM PLANES AND MAGNETIC POLARITY REVERSALS (OCE-7826532 A03)*; 6 MONTHS $15,927

WYRTKI, KLAUS; *MONITORING PACIFIC SEA LEVEL FLUCTUATIONS (OCE-7921789 A01)*; 12 MONTHS $270,744

FIRING, ERIC, AND MOORE, DENNIS W; *LINE ISLAND PROFILING (OCE-7923363 A01*)*; $110,675

MOORE, DENNIS W, AND FIRING, ERIC; *LINE ISLAND PROFILING (OCE-7923363 A02*)*; 12 MONTHS $404,277

CLARKE, THOMAS A; *THE ECOLOGY OF MESOPELAGIC FISHES IN THE CENTRAL PACIFIC OCEAN (OCE-8008348)*; 18 MONTHS $36,824

HUSSONG, DONALD M; *DATA REDUCTION: INTEGRATED OCEAN BOTTOM SEISMOMETER EXPERIMENT - MARIANA TRANSECT (OCE-8012922)*; 18 MONTHS $32,514

SADLER, JAMES C; *ANALYSIS OF TROPICAL PACIFIC WIND FIELD (OCE-8018186)*; 24 MONTHS $153,732

KINZIE, ROBERT A; *RESPONSE OF CORALS TO HABITAT RELATED DIFFERENCES IN LIGHT INTENSITY AND SPECTRAL DISTRIBUTION (OCE-8018652)*; 12 MONTHS $75,279

SADLER, JAMES C, AND RAMAGE, COLIN S; *NORTH PACIFIC EXPERIMENT (NORPAX): METEROLOGICAL ATLAS (OCE-8019012)*; 24 MONTHS $94,379

WYRTKI, KLAUS, AND STROUP, EDWARD D; *NORTH PACIFIC EXPERIMENT (NORPAX) A TRANSEQUATORIAL SHUTTLE EXPERIMENT (OCE-8019028)*; 24 MONTHS $180,000

KROOPNICK, PETER M, AND MARGOLIS, STANLEY V; *GEOCHEMICAL AND ISOTOPIC STUDIES OF MARINE PLANKTON AND SEDIMENTS ACROSS THE EQUATORIAL PACIFIC UPWELLING ZONE (OCE-8019459*)*; 12 MONTHS $98,202

HELSLEY, CHARLES E; *SHIP OPERATIONS SUPPORT (OCE-8022116)*; 12 MONTHS $546,700

HELSLEY, CHARLES E; *OCEANOGRAPHIC INSTRUMENTATION (OCE-8022585)*; 12 MONTHS $13,705

HELSLEY, CHARLES E, AND CAMPBELL, J FRISBEE; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-8022586)*; 12 MONTHS $23,600

HELSLEY, CHARLES E; *SHIPBOARD TECHNICIAN SUPPORT (OCE-8023025)*; 12 MONTHS $50,000

YOUNG, RICHARD E; *ASPECTS OF THE BIOLOGY OF MIDWATER CEPHALOPODS OFF OAHU, HAWAII: III. THE ROLE OF BIOLUMINESCENCE (OCE-8023697)*; 12 MONTHS $69,010

FIRING, ERIC; *NORTH PACIFIC EXPERIMENT (NORPAX): ANALYSIS OF PROFILING CURRENT METER DATA TAKEN DURING HAWAII-TAHITI SHUTTLE EXPERIMENT (OCE-8023716)*; 12 MONTHS $54,084

SINTON, JOHN M; *PETROLOGICAL INVESTIGATION OF PROPAGATING RIFTS OF THE GALAPAGOS SPREADING CENTER (OCE-8024051)*; 24 MONTHS $79,459

KARL, DAVID M; *ECOLOGY OF MICROORGANISMS: NUCLEOTIDE FINGERPRINTING OF DEEP SEA HYDROTHERMAL VENT MICROBIAL COMMUNITIES (OCE-8024255)*; 12 MONTHS $37,014

DUENNEBIER, FREDERICK K; *GALAPAGOS RIFT SYSTEM: SEISMICITY OF A PROPAGATING RIFT (OCE-8024439)*; 24 MONTHS $59,812

KARL, DAVID M; *COMPOUND-SPECIFIC ANALYSIS OF DISSOLVED ORGANIC CARBON IN SEA WATER USING ENZYME SYSTEMS COUPLED TO IMMOBILIZED BACTERIAL LUCIFERASE (OCE-8139256)*; 24 MONTHS $46,710

ILLINOIS

UNIVERSITY OF CHICAGO

PLATZMAN, GEORGE W; *NORMAL MODE SYNTHESIS OF THE GLOBAL OCEAN TIDE (OCE-8110929)*; 12 MONTHS $52,715

ALLER, ROBERT C; *THE EFFECTS OF ANIMAL-SEDIMENT INTERACTIONS ON GEOCHEMICAL PROCESSES NEAR THE SEDIMENT-WATER INTERFACE (OCE-8111415*)*; 12 MONTHS $66,318

UNIVERSITY OF ILLINOIS AT URBANA

KLEIN, GEORGE D; *SYNTHESIS OF BACK-ARC BASIN SEDIMENTOLOGY BASED ON DSDP/IPOD DRILLING (OCE-8109447*)*; 24 MONTHS $[illegible],256

INDIANA

PURDUE UNIVERSITY

CROUGH, S THOMAS; *HOTSPOTS AND THE DEPTH OF THE SEAFLOOR (OCE-8109458)*; 24 MONTHS $34,070

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

CHAN, LUI-HEUNG; *THE DISTRIBUTION OF BARIUM AND THE RADIUM-BARIUM RELATIONSHIP IN THE NORTHEAST ATLANTIC OCEAN (OCE-8110409)*; 12 MONTHS $33,751

MAINE

NORTHEASTERN RESEARCH FOUNDATION INC-BIGELOW LABORATORY FOR OCEAN SCIENCES

YENTSCH, CHARLES S; *PRODUCTION OF ORGANIC MATTER BY MARINE PHYTOPLANKTON: THE IDENTIFICATION AND MICROBIAL UTILIZATION OF EXTRACELLULAR COMPOUNDS (OCE-7919224 A01)*; 12 MONTHS $31,996

PACKARD, THEODORE T, AND CODISPOTI, LOUIS A; *METABOLIC PROCESSES IN THE PERU CURRENT OXYGEN MINIMUM ZONE (OCE-7919905 A01)*; 12 MONTHS $50,671

MAYER, LAWRENCE M; *COLLABORATIVE RESEARCH IN INTERACTIVE CHEMISTRY OF MARINE DISSOLVED ORGANIC MATTER (OCE-7920245 A01)*; 12 MONTHS $31,528

MURPHY, LYNDA S; *COLLABORATIVE RESEARCH ON COMPARATIVE ENVIRONMENTAL PHYSIOLGY OF MARINE PHYTOPLANKTON: THE NERITIC-OCEANIC BOUNDARY (OCE-8008227 A01*)*; 12 MONTHS $93,607

KING, FREDERICK D; *REGULATION OF NITROGEN EXCRETION IN MARINE ZOOPLANKTON (OCE-8009540)*; 12 MONTHS $46,771

CODISPOTI, LOUIS A; *A COLLABORATIVE STUDY OF THE NUTRIENT VARIABILITY OFF SOMALIA: PHASE II (OCE-8017041)*; 12 MONTHS $24,175

YENTSCH, CHARLES S; *ACQUISITION OF SHORE LABORATORY INSTRUMENTATION FOR OCEANOGRAPHIC RESEARCH (OCE-8018739)*; 12 MONTHS $27,535

UNIVERSITY OF MAINE, ORONO

MAYER, LAWRENCE M; *COLLABORATIVE RESEARCH IN INTERACTIVE CHEMISTRY OF MARINE DISSOLVED ORGANIC MATTER (OCE-7920244 A01)*; 12 MONTHS $16,127

MAYER, LAWRENCE M; *COLLABORATIVE RESEARCH IN INTERACTIVE CHEMISTRY OF MARINE DISSOLVED ORGANIC MATTER (OCE-7920244 A02)*; 6 MONTHS $9,780

SCHNITKER, DETMAR; *IPA MOBILITY ASSIGNMENT - DETMAR SCHNITKER (OCE-8023155 A01)*; $2,450

MARYLAND

JOHNS HOPKINS UNIVERSITY-CHESAPEAKE BAY INSTITUTE

TAYLOR, W R, AND SHEEHAN, R K; *SHIP OPERATIONS SUPPORT (OCE-8024271)*; 12 MONTHS $450,501

TAYLOR, W R, AND SHEEHAN, R K; *SHIPBOARD TECHNICIAN SUPPORT (OCE-8103212)*; 12 MONTHS $35,000

HEINBOKEL, JOHN F; *INTERACTIONS OF BLOOM-FORMING DINOFLAGELLATES AND THEIR MICRO-ZOOPLANKTON PREDATORS IN RELATION TO HYDROGRAPHY IN THE CHESAPEAKE BAY (OCE-8109928)*; 12 MONTHS $131,987

JOHNS HOPKINS UNIVERSITY

JACKSON, JEREMY B; *LIFE HISTORIES AND COMPETITIVE ABILITIES OF CHEILOSTOME ECTOPROCTS: IMPORTANCE TO CRYPTIC COMMUNITY STRUCTURE (OCE-7819674 A03)*; 12 MONTHS $116,094

TAYLOR, W R, AND SHEEHAN, R K; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-8023323)*; 12 MONTHS $15,000

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

FLEMING, REX J; *LONG-TERM MONITORING OF THE ANTARCTIC CIRCUMPOLAR CURRENT IN THE DRAKE PASSAGE (OCE-8108024)*; 12 MONTHS $30,000

CLARK, RICHARD; *SUPPORT FOR ARGOS DATA COLLECTION AND LOCATION SYSTEM (E&E-8109974*)*; 13 MONTHS $26,392

UNIVERSITY OF MARYLAND, COLLEGE PARK-CENTER FOR ENVIRONMENTAL & ESTUARINE STUDIES

FISHER, THOMAS R; *REGENERATION OF NITROGEN NUTRIENTS IN THE WATER COLUMNS OF THE CHESAPEAKE AND DELAWARE BAYS (OCE-8112127)*; 24 MONTHS $111,418

UNIVERSITY OF MARYLAND, COLLEGE PARK-CHESAPEAKE BIOLOGICAL LAB

D'ELIA, CHRISTOPH F; *DISSOLVED NITROGEN AND PHOSPHORUS FLUXES OF SCLERACTINIAN CORAL-ZOOXANTHELLAE SYMBIOSES (OCE-7808415 A01)*; $2,000

HOUDE, EDWARD D; *ECOLOGY OF MARINE FISH LARVAE: INTERACTIONS AMONG LARVAE, THEIR PREDATORS AND THEIR PREYL (OCE-8108021*)*; 17 MONTHS $135,152

ROMAN, MICHAEL R; *THE NUTRITIONAL ROLE OF DETRITUS FOR MARINE COPEPODS (OCE-8116585)*; 24 MONTHS $125,285

ROMAN, MICHAEL R; *IN SITU GRAZING OF MICROZOOPLANKTON IN WARM CORE GULF STREAM RINGS (OCE-8117562)*; 6 MONTHS $57,096

UNIVERSITY OF MARYLAND, COLLEGE PARK

VERMEIJ, GEERAT J; *STUDIES ON THE PREDATION ON RECENT AND FOSSIL MOLLUSCS (OCE-7909079 A01)*; 12 MONTHS $52,369

TUTTLE, JON H; *ACTIVITIES, CHARACTERIZATION, AND ASSOCIATIONS OF SULFIDE AND THIOSULFATE-OXIDIZING BACTERIA AT DEEP SEA HYDROTHERMAL VENTS (OCE-8114909)*; 24 MONTHS $30,071

MASSACHUSETTS

AMHERST COLLEGE

BENSON, BRUCE B; *DEFINITIVE DETERMINATIONS OF THE SOLUBILITIES OF 12 INORGANIC AND ORGANIC GASES IN SEAWATER (OCE-8019886)*; 12 MONTHS $70,685

BATTELLE MEMORIAL INSTITUTE-BATTELLE WILLIAM F CLAPP LABORATORIES INC

NEFF, JERRY M; *DEVELOPMENT OF DIAGNOSTIC BIOCHEMICAL INDICES OF EARLY POLLUTANT STRESS IN MARINE ANIMALS (OCE-8111949)*; 12 MONTHS $107,635

GORDON COLLEGE

WRIGHT, RICHARD T; *BACTERIAL NUMBERS AND ACTIVITY IN ESTUARINE AND COASTAL ENVIRONMENTS (OCE-7925368 A01)*; 12 MONTHS $45,560

HARVARD UNIVERSITY

SEBENS, KENNETH P; *THE EFFECT OF PREY RESOURCE AVAILABILITY ON GROWTH AND COMPETITIVE SUCCESS IN A SPACE LIMITED COMMUNITY (OCE-8007923 A01)*; 12 MONTHS $57,167

ROBINSON, ALLAN R, AND LOBEL, PHILLIP S; *EDDY CURRENTS AND THE LIFE CYCLE OF REEF FISHES (OCE-8009554 A01)*; 4 MONTHS $6,930

MCCARTHY, JAMES J; *NITROGENOUS AND PHOSPHORUS NUTRITION OF PHYTOPLANKTON IN WARM CORE RINGS (OCE-8022990*)*; 12 MONTHS $114,625

MCCARTHY, JAMES J; *NITROGENOUS AND PHOSPHORUS NUTRITION OF PHYTOPLANKTON IN WARM CORE RINGS (OCE-8022990 A01)*; 3 MONTHS $30,400

MARINE BIOLOGICAL LABORATORY

GRAS LE, JUDITH P; *POPULATION GENETICS OF SPECIES REPRESENTING SEVERAL PHYLA AT EAST PACIFIC RISE (21 DEGREES NORTH) HYDROTHERMAL VENTS (OCE-8024899)*; 24 MONTHS $82,744

BERG, CARL J; *LIFE HISTORY STUDIES OF MOLLUSKS OF THE EAST PACIFIC RISE HYDROTHERMAL VENT REGION AT 21 DEGREES NORTH (OCE-8117119)*; 24 MONTHS $76,077

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SCLATER, JOHN G; *DETERMINING THE THERMAL STATE OF OLD OCEANIC CRUST AND LITHOSPHERE (OCE-7909448 A01)*; 12 MONTHS $114,981

HARRISON, D E; *TROPICAL WIND STRESS ANALYSIS (OCE-7921815 A01)*; 12 MONTHS $24,400

WUNSCH, CARL, AND ERIKSEN, CHARLES C; *STUDIES OF THE DYNAMICS OF THE EQUATORIAL PACIFIC OCEAN (OCE-7921816 A02)*; $28,400

WUNSCH, CARL, AND ERIKSEN, CHARLES C; *DESIGN AND DEVELOPMENT OF AN UPPER EQUATORIAL OCEAN PROFILING SYSTEM (OCE-7921817 A01)*; 11 MONTHS $108,000

CANE, MARK A; *SEASONAL VARIABILITY OF EQUATORIAL OCEAN CIRCULATIONS (OCE-7922046 A01)*; 12 MONTHS $60,566

WUNSCH, CARL; *STUDIES OF OCEAN VARIABILITY BY ACOUSTIC METHODS (OCE-8017791)*; 12 MONTHS $157,848

SOLOMON, SEAN C; *COLLABORATIVE RESEARCH: A MICROEARTHQUAKE SURVEY ON THE MID-ATLANTIC RIDGE (EAR-8018193*)*; 12 MONTHS $26,750

WUNSCH, CARL; *STUDIES OF THE GENERAL CIRCULATION OF THE OCEAN (OCE-8018514)*; 12 MONTHS $423,789

WUNSCH, CARL; *STUDIES OF THE GENERAL CIRCULATION OF THE OCEAN (OCE-8018514 A01)*; 12 MONTHS $60,050

BOYLE, EDWARD A; *THE MICRO-TRACE ELEMENT COMPOSITION OF FORAMINIFERA TESTS (OCE-8018665)*; 12 MONTHS $71,297

FLIERL, GLENN R; *THEORETICAL STUDIES OF THE PHYSICS AND BIOLOGY OF WARM CORE RINGS (OCE-8019260*)*; 12 MONTHS $105,800

EDMOND, JOHN M; *EAST PACIFIC RISE STUDY: GEOCHEMISTRY OF HYDROTHERMAL WATERS (OCE-8020203)*; 12 MONTHS $141,370

EDMOND, JOHN M; *HIGH TEMPERATURE WATER SAMPLING (OCE-8024057)*; 12 MONTHS $53,941

HARRISON, D E; *THE OCEAN GENERAL CIRCULATION AND THE ROLES OF MESOSCALE EDDIES IN IT (OCE-8024117)*; 36 MONTHS $97,232

SCLATER, JOHN G; *HEAT FLOW AND TECTONICS OF THE WESTERN MEDITERRANEAN AND SOUTHERN EUROPE (OCE-8024287*)*; 12 MONTHS $64,785

WUNSCH, CARL, AND ERIKSEN, CHARLES C; *STUDIES OF THE DYNAMICS OF THE EQUATORIAL PACIFIC OCEAN (OCE-8024911)*; 12 MONTHS $372,400

FREY, FREDERICK A; *ACQUISITION OF COMPUTER-BASED NEUTRON ACTIVATION SYSTEM (EAR-8025275*)*; 12 MONTHS $40,000

EDMOND, JOHN M; *CHEMISTRY OF THE HOT SPRINGS (>350 DEGREES C) ON THE EAST PACIFIC RISE AT 21 DEGREES N (OCE-8025564*)*; 12 MONTHS $69,652

EDMOND, JOHN M; *MEASUREMENTS OF DISSOLVED TRACE METALS AND OTHER SPECIES IN THE WATER COLUMN OVER BOTTOM LANDER SITES (OCE-8103161*)*; 12 MONTHS $35,630

UNIVERSITY OF MASSACHUSETTS, AMHERST

BIGELOW, MARGARET E; *DOCTORAL DISSERTATION RESEARCH IN PHYCOMELAINA LAMINARIAELAMINARIA SACCHARINA: A MARINE HOST-PARASITE INTERACTION (OCE-8005125)*; 12 MONTHS $4,660

WOODS HOLE OCEANOGRAPHIC INSTITUTION

STETSON, THOMAS R; *SUPPORT FOR THE UNIVERSITY-NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM (UNOLS) (OCE-7716173 A06)*; $12,823

BRYDEN, HARRY L, LUYTEN, JAMES R, AND OWENS, W B; *JOINT U.S.-U.S.S.R. MID-OCEAN DYNAMICS EXPERIMENT(POLYMODE) : A STUDY OF THE MESOSCALE POTENTIAL VORTICITY AND HEAT BALANCE IN THE OCEANIC THERMOCLINE (OCE-7719403 A02)*; $34,690

DINSMORE, ROBERTSON P; *SHIP OPERATIONS SUPPORT (OCE-7723699 A06)*; $129,030

SCHMITZ, WILLIAM J, AND RICHARDSON, PHILIP L; *ACOUSTICALLY-TRACKED, NEUTRALLY-BUOYANT FLOAT OPERATIONS AND DEVELOPMENT, & A PROGRAM OF PRELIMINARY EXPLORATION OF HIGHLY DISPERSIVE REGIONS OF THE WESTERN NORTH ATLANTIC OCEAN (OCE-7818007 A02*)*; 12 MONTHS $271,315

RICHARDSON, PHILIP L; *A STUDY OF THE GULF STREAM USING FREELY DRIFTING BUOYS (OCE-7818017 A02)*; $7,980

GRASSLE, J F; *ECOLOGY OF THE DEEP-SEA BENTHOS: COMMUNITY STRUCTURE, SPATIAL PATTERN AND THE ROLE OF DISTURBANCE (OCE-7819820 A02)*; 12 MONTHS $96,654

JENKINS, WILLIAM J; *INTERNATIONAL SOUTHERN OCEAN STUDIES (ISOS): A STUDY OF SOUTHERN OCEAN WATER MASS RENEWAL AND CIRCULATION IN THE SOUTH AMERICAN SECTOR USING HELIUM ISOTOPES AND TRITIUM (OCE-7821734 A02)*; 12 MONTHS $53,099

MCCARTNEY, MICHAEL S, AND GEORGI, DANIEL T; *INTERNATIONAL SOUTHERN OCEAN STUDIES (ISOS): ANTARCTIC INTERMEDIATE WATER RENEWAL AND CIRCULATION (OCE-7922223 A02)*; 15 MONTHS $101,990

JOHNSON, DAVID A; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: WOODS HOLE OCEANOGRAPHIC INSTITUTION (OCE-7925231 A03)*; 12 MONTHS $34,276

HOGG, NELSON G; *A STUDY OF BOTTOM WATER FLOW THROUGH VEMA CHANNEL (OCE-7925405 A02)*; 12 MONTHS $154,966

ZAFIRIOU, OLIVER C; *CHEMICAL EFFECTS OF LIGHT IN THE SEA (OCE-7909381 A02)*; 6 MONTHS $10,773

PURDY, G M, AND STEPHEN, R A; *SEISMIC STRUCTURE OF 'NORMAL' OCEANIC CRUST: SCALE AND NATURE OF LATERAL VARIATIONS (OCE-7909464 A01)*; 12 MONTHS $74,400

JANNASCH, HOLGER W; *MICROBIAL TRANSFORMATIONS IN SEAWATER (OCE-7919178 A01)*; 12 MONTHS $170,539

TAYLOR, CRAIG D, AND GAGOSIAN, ROBERT B; *MICROBIAL TRANSFORMATIONS OF ORGANIC COMPOUNDS IN THE ANOXIC MARINE ENVIRONMENT (OCE-7919264 A01)*; 12 MONTHS $69,611

JENKINS, WILLIAM J; *A STUDY OF TRANSPORT PROCESSES IN THE NORTH ATLANTIC OCEAN USING TRITIUM AND HELIUM (OCE-7919815 A01)*; 12 MONTHS $91,100

JENKINS, WILLIAM J; *A STUDY OF TRANSPORT PROCESSES IN THE NORTH ATLANTIC OCEAN USING 3H AND 3HE (OCE-7919815 A02)*; $17,337

JENKINS, WILLIAM J; *NORTH ATLANTIC STUDY OF THE TRANSIENT TRACERS IN THE OCEAN PROGRAM (NAS/TTO): TRITIUM AND HELIUM-3 MEASUREMENTS (OCE-7921378 A01)*; 12 MONTHS $178,393

LUYTEN, JAMES R, STOMMEL, HENRY M, VOORHIS, ARTHUR D, AND WEBB, DOUGLAS C; *LARGE SCALE ZONAL STRUCTURE OF EQUATORIAL CURRENTS IN THE TROPICAL PACIFIC (OCE-7921736 A01)*; 6 MONTHS $378,109

DONNELLY, JOHN D; *SUPPORT OF DRV ALVIN AND R/V LULU NAVIGATION EQUIPMENT (OCE-7921881)*; 12 MONTHS $136,672

EWING, JOHN I, SCHOUTEN, HANS, AND PURDY, G M; *LARGE APERTURE SEISMIC EXPERIMENT (LASE) (16E-7924174 A01)*; 12 MONTHS $54,613

RHINES, PETER B, AND BRUCE, J G; *ZONAL VARIABILITY IN THE EQUATORIAL ATLANTIC (OCE-7925350 A01)*; 12 MONTHS $94,324

HONJO, SUSUMU, AND BREWER, PETER G; *A STUDY OF THE SEASONAL FLUX OF PARTICULATE MATTER IN THE DEEP OCEAN BY MEANS OF MOORED SEDIMENT TRAPS (OCE-7925429 A01*)*; 12 MONTHS $156,643

SCHELTEMA, RUDOLF S; *IMPLICATIONS OF PELAGIC INVERTEBRATE LARVAE FOR ZOOGEOGRAPHY AND EVOLUTION IN THE PRESENT AND GEOLOGIC PAST (EAR-7926381 A01*)*; $20,000

BACKUS, RICHARD H; *TRANSPORT OF FISHES BY THE FLORIDA CURRENT (OCE-8007963)*; 24 MONTHS $53,000

BREWER, PETER G, AND BRADSHAW, ALVIN L; *NORTH ATLANTIC STUDY OF THE TRANSIENT TRACERS IN THE OCEAN PROGRAM (NAS/TTO): ALKALINITY AND TOTAL CARBON DIOXIDE MEASUREMENTS (OCE-8008160 A02)*; 12 MONTHS $168,260

VACCARO, RALPH F; *COLLABORATIVE RESEARCH ON COMPARATIVE ENVIRONMENTAL PHYSIOLOGY OF MARINE PHYTOPLANKTON: THE NERITIC-OCEANIC BOUNDARY (OCE-8008248 A01)*; 12 MONTHS $91,000

CORLISS, BRUCE H; *MIDDLE EOCENE - EARLY OLIGOCENE PALEOCEANOGRAPHY (OCE-8008879)*; 24 MONTHS $175,300

CORLISS, BRUCE H; *EQUIPMENT GRANT: MASS SPECTROMETER FOR OXYGEN AND CARBON ISOTOPIC DATA (OCE-8009015)*; 12 MONTHS $61,963

GRANT, WILLIAM D, AND WILLIAMS, ALBERT J; *COASTAL OCEAN DYNAMICS EXPERIMENT: (CODE): BOTTOM BOUNDARY SHEAR STRESS (OCE-8014938 A01)*; 12 MONTHS $227,985

BEARDSLEY, ROBERT C; *COASTAL OCEAN DYNAMICS EXPERIMENT (CODE): OCEAN CURRENT AND WIND MEASUREMENTS (OCE-8014941 A01)*; 12 MONTHS $596,600

STOMMEL, HENRY M; *RESEARCH IN OCEAN PHYSICS (OCE-8015739)*; 12 MONTHS $178,900

JOYCE, TERRENCE M; *PHYSICAL STUDIES OF WARM CORE GULF STREAM RINGS (OCE-8016983*)*; 12 MONTHS $226,189

WIEBE, PETER H; *ECOLOGICAL STUDIES OF ZOOPLANKTON POPULATIONS IN WARM CORE RINGS AND IN THE NORTHWESTERN ATLANTIC SLOPE WATER (OCE-8017248*)*; 12 MONTHS $340,461

BACKUS, RICHARD H; *MESOPELAGIC FISHES IN GULF STREAM WARM-CORE RINGS (OCE-8017270*)*; 12 MONTHS $147,317

COWLES, TIMOTHY J; *ZOOPLANKTON RATE PROCESSES AND COPEPOD DISTRIBUTION PATTERNS AS AFFECTED BY GULF STREAM WARM CORE RINGS (OCE-8017271*)*; 12 MONTHS $106,153

SPINDEL, ROBERT C; *OCEAN ACOUSTIC TOMOGRAPHY (OCE-8017909)*; 12 MONTHS $307,650

WHITEHEAD, JOHN A; *LABORATORY STUDIES OF BUOYANCY DRIVEN FLOWS (OCE-8018322)*; 12 MONTHS $66,438

GAGOSIAN, ROBERT B; *THE BIOGENIC ORGANIC COMPOUND COMPOSITION AND FLUX OF OCEANIC PARTICLES (OCE-8018436)*; 12 MONTHS $113,516

STEGEMAN, JOHN J; *POLLUTANT RESPONSES IN MARINE ANIMALS: CYTOCHROME P-450 AND BIOTRANSFORMATION OF HYDROCARBONS IN MARINE FISH (OCE-8018569)*; 12 MONTHS $117,702

CAREY, FRANCIS G; *ACTIVITY PATTERNS OF PELAGIC FISH (OCE-8018674)*; 12 MONTHS $59,647

PURDY, G M; *COLLABORATIVE RESEARCH: A MICROEARTHQUAKE SURVEY ON THE MID-ATLANTIC RIDGE (EAR-8018805*)*; 12 MONTHS $18,550

SAYLES, FREDERICK L; *ADVECTION OF SEAWATER THROUGH OCEANIC CRUST AND SEDIMENTS: LOW TEMPERATURE CHEMICAL INTERACTIONS AND GEOCHEMICAL SIGNIFICANCE (OCE-8019023*)*; 12 MONTHS $182,147

BERGGREN, WILLIAM A; *EVOLUTIONARY PATTERNS IN CENOZOIC PLANKTONIC FORAMINIFERA (OCE-8019051)*; 12 MONTHS $114,684

WIEBE, PETER H, AND COWLES, TIMOTHY J; *POPULATION DYNAMICS OF SLOPE WATER ZOOPLANKTON SPECIES & THE RELATIONSHIP TO PHYSICAL & BIOLOGICAL PROCESSES CONTROLLING EXPATRIATED POPULATIONS IN GULF STREAM COLD CORE RINGS (OCE-8019055)*; 24 MONTHS $102,528

MOTTL, MICHAEL J; *GEOCHEMISTRY OF MARINE SEDIMENTS, VOLCANIC ROCKS, AND PORE WATERS: IPOD COSTA RICA RIFT SITES (OCE-8019056)*; 12 MONTHS $81,996

WATSON, STANLEY W, AND WATERBURY, JOHN B; *CONCENTRATION, DISTRIBUTION AND ROLE OF SYNECHOCOCCUS IN THE OCEAN (OCE-8019057)*; 12 MONTHS $123,494

HONJO, SUSUMU; *PELAGIC OPAL: VERTICAL FLUX AND PRESERVATION OF RADIOLARIANS AND SILICOFLAGELLATES (OCE-8019386)*; 24 MONTHS $59,790

HUNT, JOHN M; *GEOCHEMISTRY OF VOLATILE ORGANIC COMPOUNDS IN MARINE SEDIMENTS (OCE-8019508)*; 12 MONTHS $99,473

BALLARD, ROBERT D; *VOLCANIC AND TECTONIC STUDIES OF THE EAST PACIFIC RISE (OCE-8020425)*; 12 MONTHS $2[illegible],520

BALLARD, ROBERT D; *VOLCANIC AND TECTONIC STUDIES OF THE EAST PACIFIC RISE (OCE-8020425 A02)*; $105,480

BRINK, KENNETH H; *ORGANIZATION OF PERSISTENT UPWELLING STRUCTURES: NEARSURFACE CIRCULATION ASSOCIATED WITH A COASTAL UPWELLING CENTER (OCE-8021098)*; 12 MONTHS $71,779

MAXWELL, ARTHUR E; *OPERATIONS SUPPORT FPR DEEP SUBMERGENCE RESEARCH VEHICLE (DSRV) (OCE-8021930)*; 12 MONTHS $941,600

DINSMORE, ROBERTSON P; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-8022419)*; 12 MONTHS $90,893

DINSMORE, ROBERTSON P; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-8022419 A01)*; $108,904

DINSMORE, ROBERTSON P; *SHIP OPERATIONS SUPPORT (OCE-8022421)*; 12 MONTHS $2,324,678

DINSMORE, ROBERTSON P; *SHIP OPERATIONS SUPPORT (89E-8022421 A01)*; $2,324,678

SPENCER, DEREK W; *OCEANOGRAPHIC INSTRUMENTATION (OCE-8022581)*; 12 MONTHS $38,220

BERGGREN, WILLIAM A; *CENOZOIC BIOSTRATIGRAPHY AND BIOGEOGRAPHY OF THE ATLANTIC OCEAN: CALCAREOUS PLANKTON (OCE-8023728)*; 12 MONTHS $71,421

BOWIN, CARL O; *MASS ANOMALIES AT PLATE CONVERGENT ZONES IN THE SEATAR REGION (OCE-8023753)*; 12 MONTHS $52,066

RHINES, PETER B; *THEORETICAL STUDIES IN OCEANIC CIRCULATION (OCE-8023763)*; 24 MONTHS $240,000

BACON, MICHAEL P; *MARINE GEOCHEMISTRY OF THE RADIOACTIVE ELEMENTS (OCE-8024063)*; 12 MONTHS $71,501

DEUSER, WERNER G; *SEASONAL CHANGES IN THE SUPPLY OF SEDIMENT TO THE DEEP SARGASSO SEA (OCE-8024130*)*; 12 MONTHS $92,000

JANNASCH, HOLGER W; *MICROBIOLOGICAL STUDIES AT DEEP SEA HYDROTHERMAL VENTS (OCE-8024253)*; 12 MONTHS $76,599

GAGOSIAN, ROBERT B; *ORGANIC GEOCHEMICAL STUDIES OF THE EAST PACIFIC RISE HYDROTHERMAL VENTS (OCE-8024256)*; 12 MONTHS $28,563

LEE, CINDY; *THE ROLE OF ORGANIC NITROGEN COMPOUNDS IN DECOMPOSITION PROCESSES (OCE-8024282)*; 12 MONTHS $50,014

MARCUS, NANCY H; *SEASONALITY, DIAPAUSE, AND THE EVOLUTION OF MARINE COPEPODS (OCE-8024440)*; 12 MONTHS $58,500

MADIN, LAURENCE P; *THE BIOLOGY OF GELATINOUS ZOOPLANKTON: FEEDING RATES AND BEHAVIOR OF SALPS, CTENOPHORES AND HYPERIID AMPHIPODS (OCE-8024441)*; 12 MONTHS $81,976

DEUSER, WERNER G; *GEOCHEMISTRY OF STABLE NITROGEN ISOTOPES IN MARINE SEDIMENTS (OCE-8024442)*; 18 MONTHS $11,901

GOLDMAN, JOEL C; *THE INFLUENCE OF TEMPERATURE ON PHOTOSYNTHETIC AND NITROGEN TURNOVER RATES OF MARINE PHYTOPLANKTON (OCE-8024465)*; 12 MONTHS $82,351

SAYLES, FREDERICK L; *SEAWATER-SEDIMENT INTERACTION: THE DIFFUSIVE FLUXES OF IONS BETWEEN THE OCEANS AND THE UNDERLYING SEDIMENTS (OCE-8024447)*; 12 MONTHS $106,376

SAYLES, FREDERICK L, AND MANGELSDORF, PAUL C; *SEAWATER-SEDIMENT INTERACTION: THE DIFFUSIVE FLUXES OF IONS BETWEEN THE OCEANS AND THE UNDERLYING SEDIMENTS (OCE-8024447 A01)*; $22,327

LOHMANN, GEORGE P, AND CURRY, W B; *AN EVALUATION OF CARBON ISOTOPE VARIATIONS IN DEEP WATER FORAMINIFERS (OCE-8024608)*; 12 MONTHS $24,400

THOMPSON, GEOFFREY; *PETROLOGICAL AND GEOCHEMICAL STUDIES OF THE MID-ATLANTIC RIDGE: SOUTH ATLANTIC, PART 2 (OCE-8024629)*; 18 MONTHS $98,107

THOMPSON, GEOFFREY, BRYAN, WILFRED B, AND DICK, HENRY J B; *PETROGENESIS AND GEOCHEMICAL EVOLUTION OF THE DEEP OCEAN CRUST: KANE FRACTURE ZONE (OCE-8024930)*; 12 MONTHS $144,948

VON HERZEN, RICHARD P; *HEAT FLOW AND TECTONICS OF THE WESTERN MEDITERRANEAN: SUBSIDENCE MODELS (OCE-8025181)*; 12 MONTHS $88,425

SANDERS, HOWARD L; *THE BENTHIC MACROFAUNA OF THE EAST PACIFIC RISE HYDROTHERMAL VENT REGION AT 21 DEGREES NORTH (OCE-8025201)*; 12 MONTHS $41,218

PURDY, G M; *SEISMIC INVESTIGATIONS OF THE KANE FRACTURE ZONE AND THE ADJACENT OCEANIC CRUST (OCE-8025206)*; 12 MONTHS $65,066

JOHNSON, DAVID A; *LATE CENOZOIC SEDIMENTATION AND PALEOCEANOGRAPHY OF THE RIO GRANDE RISE/VEMA CHANNEL (OCE-8025208)*; 12 MONTHS $119,986

HONJO, SUSUMU; *MARINE SNOW IN THE DEEP OCEAN; SPATIAL DISTRIBUTION AND BASIC CHARACTERISTICS (OCE-8025209)*; 12 MONTHS $74,651

WATERBURY, JOHN B; *NITROGEN FIXATION IN THE MARINE ENVIRONMENT BY AEROBIC CHEMOHETEROTROPHIC BACTERIA (OCE-8025241)*; 12 MONTHS $67,157

PEAL, KENNETH R; *SHIPBOARD TECHNICIAN SUPPORT (OCE-8101806)*; 12 MONTHS $240,722

STETSON, THOMAS R; *SUPPORT FOR THE UNIVERSITY-NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM (UNOLS) OFFICE (29E-8108376)*; 11 MONTHS $130,702

STETSON, THOMAS R; *SUPPORT FOR THE UNIVERSITY - NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM (UNOLS) OFFICE (29E-8108376 A01)*; $28,930

STETSON, THOMAS R; *SUPPORT FOR THE UNIVERSITY-NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM (UNOLS) OFFICE (29E-8108376 A02)*; $4,900

HAIDVOGEL, DALE B; *EULERIAN AND LAGRANGIAN STUDIES OF MESOSCALE EDDIES AND THE GULF STREAM SYSTEM (OCE-8109486)*; 24 MONTHS $141,000

ZAFIRIOU, OLIVER C; *CHEMICAL EFFECTS OF LIGHT IN THE SEA (OCE-8110160)*; 12 MONTHS $65,498

MOTTL, MICHAEL J; *CHEMICAL PROCESSES IN SUBMARINE HYDROTHERMAL PLUMES (OCE-8110913)*; 12 MONTHS $58,000

LOHMANN, GEORGE P; *SOUTH ATLANTIC BENTHIC FORAMINIFERS (OCE-8110935)*; 12 MONTHS $51,400

GAGOSIAN, ROBERT B; *SEA-AIR EXCHANGE PROJECT (SEAREX) - SOURCES AND FLUXES OF ORGANIC COMPOUNDS IN THE MARINE ATMOSPHERE (OCE-8111947)*; 12 MONTHS $181,546

DRUFFEL, ELLEN; *INVESTIGATIONS OF STABLE ISOTOPES AND RADIOCARBON IN ANNUAL CORAL RINGS (OCE-8111954)*; 24 MONTHS $185,626

MADIN, LAURENCE P, AND CARON, DAVID A; *DOCTORAL DISSERTATION RESEARCH: THE ROLE OF BACTERIOVOROUS MICROFLAGELLATES IN PLANKTON COMMUNITIES (OCE-8112991)*; 24 MONTHS $10,000

DINSMORE, ROBERTSON P; *MID-LIFE MAINTENANCE AND HABITABILITY UPGRADING - R/V ATLANTIS II (OCE-8115253)*; 12 MONTHS $595,000

MICHIGAN

UNIVERSITY OF MICHIGAN-ANN ARBOR

REA, DAVID K; *ATMOSPHERIC CIRCULATION AND OCEANIC RESPONSE: LATE MIOCENE TO PRESENT (OCE-8024368)*; 24 MONTHS $63,657

MINNESOTA

UNIVERSITY OF MINNESOTA

JOHNSON, THOMAS C; *SEDIMENTATION IN LAKE SUPERIOR (OCE-8018339*)*; 24 MONTHS $156,029

SEYFRIED, WILLIAM E, AND SHANKS, WAYNE C; *HYDROTHERMAL PROCESSES AT 21'N ON THE EAST PACIFIC RISE: AN EXPERIMENTAL STUDY (OCE-8018644)*; 24 MONTHS $142,515

BANERJEE, SUBIR K; *MAGNETIC PROPERTIES OF OCEANIC BASALTS: HYDROTHERMAL REACTIONS (OCE-8018692)*; 12 MONTHS $59,328

UNIVERSITY OF MINNESOTA AT DULUTH

JOHNSON, THOMAS C; *PARTICLE SIZE ANALYTICAL EQUIPMENT (OCE-8109833)*; 12 MONTHS $10,850

MISSISSIPPI

OFFICE OF NAVAL RESEARCH-OCEAN SCIENCE AND TECHNOLOGY DETACHMENT

LA ROCHELLE, DAVID; *ACQUISITION OF OCEANOGRAPHIC CABLE (OCE-8122065*)*; 6 MONTHS $141,600

MISSOURI

WASHINGTON UNIVERSITY

BATIZA, RODEY; *FOSSIL RIDGE CRESTS: PETROLOGY AND GEOCHEMISTRY (OCE-8004244)*; 24 MONTHS $86,862

NEW HAMPSHIRE

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

WEBER, JAMES H; *METAL ION-HUMIC MATTER COMPLEXES IN NATURAL WATERS (OCE-7910571 A01)*; 12 MONTHS $44,400

BROWN, WENDELL S, AND IRISH, JAMES D; *COASTAL OCEAN DYNAMICS EXPERIMENT (CODE): THE PRESSURE PROGRAM (OCE-8014940 A01)*; 12 MONTHS $286,284

BIRCH, FRANCIS S; *A GEOPHYSICAL STUDY OF GLACIAL DEPOSITS AND BEDROCK ON THE INNER CONTINENTAL SHELF OF NEW HAMPSHIRE (OCE-8018299)*; 24 MONTHS $35,920

JONES, GALEN E; *METAL CONCENTRATION AND SPECIATION IN PORE WATERS OF ANOXIC MARINE SEDIMENTS AS A FUNCTION OF BACTERIAL ACTIVITIES (OCE-8018460)*; 12 MONTHS $118,447

NEW JERSEY

PRINCETON UNIVERSITY

SARMIENTO, JORGE L; *DISTRIBUTION OF RADIUM-228 IN THE NORTH ATLANTIC (OCE-8019952 A01)*; $7,210

RUTGERS UNIVERSITY

LUTZ, RICHARD A; *BIOLOGICAL ANALYSIS OF MOLLUSCAN SHELLS FROM DEEP-SEA HYDROTHERMAL VENTS (OCE-8024897)*; 24 MONTHS $44,958

NEW YORK

CITY COLLEGE

LEE, JOHN J; *THE IMPACT OF FOOD QUALITY ON MATERIAL AND ENERGY FLOW IN MEIO AND MICROBENTHIC FOOD WEBS (OCE-7825798 A02)*; 12 MONTHS $71,332

GALLAGHER, JANE C; *PHYSIOLOGICAL VARIABILITY AND POPULATION GENETICS OF SKELETONEMA COSTATUM, A PLANKTONIC MARINE DIATOM (DEB-8021744*)*; 12 MONTHS $24,000

COLUMBIA UNIVERSITY

MARRA, JOHN; *PHOTOSYNTHETIC RESPONSE BY PHYTOPLANKTON TO SUNLIGHT VARIABILITY (OCE-7819450 A01)*; 12 MONTHS $42,380

SANCETTA, CONSTANCE A, AND BURCKLE, LLOYD H; *DERIVATION OF OXYGEN ISOTOPE CURVES FROM LATE PLEISTOCENE DIATOM FOSSILS (OCE-8007301)*; 24 MONTHS $75,023

RUDDIMAN, WILLIAM F; *IPA MOBILITY ASSIGNMENT (WILLIAM F RUDDIMAN) (OCE-8119389)*; 12 MONTHS $57,817

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

KING, KENNETH; *FOSSIL PROTEINS: CHEMICAL REACTIONS AND GEOCHRONOLOGIC APPLICATIONS (OCE-7808647 A02*)*; 12 MONTHS $72,387

BURCKLE, LLOYD H; *TERTIARY DIATOM BIOSTRATIGRAPHY OF THE NORTH PACIFIC AND CIRCUM-PACIFIC (OCE-7820885 A03)*; 12 MONTHS $62,744

OPDYKE, NEIL D, AND MCCOY, FLOYD W; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: LAMONT-DOHERTY GEOLOGICAL OBSERVATORY (OCE-7825448 A02*)*; 12 MONTHS $93,000

BE, ALLAN W, ANDERSON, O ROGER, AND FAIRBANKS, RICHARD G; *PLANKTONIC FORAMINIFERA: LIFE CYCLES, ENVIRONMENTAL CONSTRAINTS, AND SHELL STRUCTURE (OCE-7825450 A03*)*; 12 MONTHS $167,093

ANDERSON, ROGER N, AND LANGSETH, MARCUS G; *IN SITU PERMEABILITY, STRESS, AND FRACTURE PATTERNS: IPOD DOWNHOLE EXPERIMENT, LEG 68, 69, AND 78A (OCE-7827026 A03)*; $51,353

GARDNER, WILFORD D, AND SULLIVAN, LAWRENCE; *LONG-TERM OBSERVATIONS OF MANGANESE NODULE ENVIRONMENTS (OCE-7904374 A01*)*; 12 MONTHS $35,742

BISHOP, JAMES K; *THE CHEMISTRY AND VERTICAL FLUX OF OCEANIC PARTICULATE MATTER (OCE-7909074 A02)*; 12 MONTHS $60,766

BOPP, R F, AND SIMPSON, H J; *THE GEOCHEMISTRY OF CHLORINATED HYDROCARBONS IN NATURAL WATERS (OCE-7909249 A01)*; 12 MONTHS $63,622

BISCAYE, PIERRE E, GARDNER, WILFORD R, AND GARDNER, WILFORD R; *FLUXES OF PARTICLES AND RADON IN VEMA CHANNEL (OCE-7910585 A01)*; 12 MONTHS $98,333

MC INTYRE, ANDREW; *MIXING OF DEEP-SEA SEDIMENTS (OCE-7918213 A01)*; 12 MONTHS $55,896

JARRARD, RICHARD D; *TECTONIC HISTORY OF THE SOUTHERN CENTRAL PACIFIC BASIN (OCE-7918793 A01)*; 12 MONTHS $42,500

WATTS, ANTHONY B, AND COCHRAN, JAMES R; *LITHOSPHERIC FLEXURE, ANALYSIS OF GRAVITY ANOMALIES AND THE GEOLOGICAL EVOLUTION OF THE WORLD'S OCEAN BASINS (OCE-7918917 A01)*; 12 MONTHS $73,100

HAYES, DENNIS E; *MARINE GEOPHYSICAL STUDIES OF THE PHILIPPINE TRANSECT (OCE-7919069 A01)*; 24 MONTHS $53,497

ANDERSON, ROGER N; *HEAT FLOW AND METALLOGENESIS IN THE MARIANA TROUGH (OCE-7919076 A01)*; 12 MONTHS $18,900

COCHRAN, JAMES R; *NORTHWEST INDIAN OCEAN STRUCTURE: TRANSITION ZONE BETWEEN SHEBA RIDGE AND THE OWEN BASIN (OCE-7919241 A01)*; 12 MONTHS $50,000

RABINOWITZ, PHILIP D; *NORTHWEST INDIAN OCEAN STRUCTURE: EVOLUTION OF THE WESTERN SOMALI BASIN AND EAST AFRICA CONTINENTAL MARGIN (OCE-7919389 A01)*; 24 MONTHS $112,242

BOERSMA, ANNE, KENT, DENNIS V, AND BLECHSCHMIDT, GRETCHEN L; *PALEOBIOGEOGRAPHIC AND PALEO-OCEANOGRAPHIC STUDIES OF PACIFIC OLIGOCENE FORAMINIFERA (OCE-7920102 A01)*; 12 MONTHS $45,500

TALWANI, MANIK, AND HAYES, DENNIS E; *SHIP OPERATIONS SUPPORT (OCE-7921913 A02)*; 6 MONTHS $251,200

TALWANI, MANIK, AND HAYES, DENNIS E; *SHIP OPERATIONS SUPPORT (OCE-7921913 A03)*; 2 MONTHS $18,686

PITMAN, WALTER C, STOFFA, PAUL L, TALWANI, MANIK, AND BUHL, PETER; *LARGE APERTURE SEISMIC EXPERIMENT (LASE) (16E-7922884 A01)*; 12 MONTHS $113,824

MORLEY, JOSEPH J, AND HAYS, JAMES D; *LATE QUATERNARY STRATIGRAPHIC AND PALEOCLIMATIC SIGNFICANCE OF THE RADIOLARIAN CYCLADOPHORA DAVISIANA (OCE-7924563 A01)*; 12 MONTHS $35,237

CANDE, STEVEN C; *RIDGE CREST SUBDUCTION ALONG THE SOUTHERN CHILE MARGIN (OCE-7925384)*; 12 MONTHS $23,562

FAIRBANKS, RICHARD G; *THE STABLE ISOTOPE AND MINOR ELEMENT CHEMISTRY OF MODERN AND HOLOCENE PLANKTONIC FORAMINIFERA: PALEOCEANOGRAPHIC APPLICATIONS (OCE-7925393 A01)*; 12 MONTHS $59,942

BROECKER, WALLACE S, AND SMETHIE, WILLIAM M; *NORTH ATLANTIC STUDY OF THE TRANSIENT TRACERS IN THE OCEAN PROGRAM (NAS/TTO): KRYPTON-85 AND RADON-222 MEASUREMENTS AND OCEANIC MODELING (OCE-7925888 A01)*; 12 MONTHS $235,931

PITMAN, WALTER C, WATTS, ANTHONY B, AND SCHREIBER, B CHARLOT; *EVOLUTION OF ATLANTIC-TYPE CONTINENTAL MARGINS (OCE-7926398 A01)*; 12 MONTHS $95,321

ANDERSON, O ROGER, AND SWANBERG, NEIL R; *BIOLOGY OF RADIOLARIA: ECOLOGY, PHYSIOLOGY, AND LIFE HISTORY (OCE-8005131 A02)*; 12 MONTHS $82,128

GORDON, ARNOLD L; *US-USSR WEDDELL POLYNYA EXPEDITION (DPP-8005765*)*; 12 MONTHS $130,000

KING, KENNETH; *AMINO ACID CONCENTRATION IN FOSSIL PLANKTONIC FORAMINIFERA: A QUANTITATIVE PARAMETER OF DEEP-SEA CARBONATE DISSOLUTION (OCE-8007994)*; 12 MONTHS $38,719

KOLLA, VENKATARA, KENT, DENNIS V, FLOOD, ROGER D, AND SHOR, ALEXANDER; *DISTINCTION OF CONTOURITES AND TURBIDITES IN QUATERNARY DEEP-SEA SEDIMENTS (OCE-8012897)*; 24 MONTHS $154,951

BISHOP, JAMES K; *PARTICULATE MATTER CHEMISTRY, SIZE DISTRIBUTIONS AND FLUXES IN WARM CORE GULF STREAM RING SYSTEMS (OCE-8017468)*; 12 MONTHS $173,261

MC INTYRE, ANDREW; *THE ROLE OF THE ATLANTIC OCEAN IN NORTHERN HEMISPHERE GLACIATION (OCE-8018177*)*; 12 MONTHS $63,546

HAYS, JAMES D, CLINE, ROSE M, MC INTYRE, ANDREW, MORLEY, JOSEPH J, AND SHACKLETON, NICHOLAS; *PROJECT SPECMAP: MAPPING VARIATIONS IN OCEAN SPECTRA OVER A FREQUENCY RANGE 10-5 TO 10-1 CYCLES PER YEAR (ATM-8019253*)*; 12 MONTHS $143,000

BROECKER, WALLACE S; *GLACIAL TO INTERGLACIAL CHANGES IN OCEAN CHEMISTRY (OCE-8019448*)*; 12 MONTHS $52,357

LANGSETH, MARCUS G, AND HOBART, MICHAEL A; *THERMAL AND CHEMICAL GRADIENTS ON THE FLANK OF THE COSTA RICA RIFT (OCE-8019452)*; 12 MONTHS $46,203

LANGSETH, MARCUS G, AND GERARD, ROBERT D; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-8022107)*; 12 MONTHS $68,300

LANGSETH, MARCUS G, AND GERARD, ROBERT D; *OCEANOGRAPHIC INSTRUMENTATION (OCE-8022109)*; 12 MONTHS $41,400

LANGSETH, MARCUS G, AND GERARD, ROBERT D; *IMPROVEMENTS FOR BASIC SHIP OPERATIONS (OCE-8022110)*; 12 MONTHS $4,000

LANGSETH, MARCUS G, AND HAYES, DENNIS E; *SHIP OPERATIONS SUPPORT (OCE-8022112)*; 8 MONTHS $250,000

LANGSETH, MARCUS G, AND OPDYKE, NEIL D; *SHIP OPERATIONS SUPPORT (OCE-8022112 A01)*; $480,867

OPDYKE, NEIL D, AND LANGSETH, MARCUS G; *SHIP OPERATIONS SUPPORT (OCE-8022112 A02)*; $18,447

OPDYKE, NEIL D, AND LANGSETH, MARCUS G; *SHIP OPERATIONS SUPPORT (OCE-8022112 A03)*; $1,749

TALWANI, MANIK, AND WINDISCH, CHARLES C; *SHIPBOARD TECHNICIAN SUPPORT (OCE-8022119)*; 5 MONTHS $46,497

FAIRBANKS, RICHARD G; *GLACIAL/INTERGLACIAL OCEAN CIRCULATION RECONSTRUCTIONS: NORTH AND SOUTH ATLANTIC (OCE-8023211)*; 12 MONTHS $44,666

LAWRENCE, JAMES R; *GEOCHEMISTRY OF OCEANIC SEDIMENTS AND IGNEOUS ROCKS: STABLE ISOTOPE STUDIES (OCE-8024044)*; 12 MONTHS $87,515

WEISSEL, JEFFREY K, AND MUTTER, JOHN C; *TECTONIC SUBSIDENCE HISTORY OF THE WESTERN AND SOUTHERN CONTINENTAL MARGINS OF AUSTRALIA (OCE-8024316)*; 18 MONTHS $102,328

KATZ, ELI J; *INTERCOMPARISON OF INVERTED ECHO SOUNDERS WITH CONCURRENT HYDROGRAPHIC OBSERVATIONS IN THE EQUATORIAL ATLANTIC (OCE-8024446)*; 12 MONTHS $155,743

HOUGHTON, ROBERT W, AND MARRA, JOHN; *FRONTAL ZONE MIXING AND ITS INFLUENCE ON THE DEVELOPMENT AND DISSIPATION OF PHYTOPLANKTON POPULATIONS (OCE-8024631*)*; 12 MONTHS $103,578

STOFFA, PAUL L, HERRON, THOMAS J, BUHL, PETER, AND DIEBOLD, JOHN B; *ROSE SEISMIC EXPERIMENT: MULTICHANNEL SEISMIC REFLECTION AND REFRACTION STUDIES (OCE-8025197)*; 12 MONTHS $110,000

BONATTI, ENRICO, AND HAMLYN, PAUL R; *A PETROLOGICAL STUDY OF OCEANIC ULTRAMAFIC ROCKS (OCE-8025252)*; 12 MONTHS $96,556

BROECKER, WALLACE S, AND SANTSCHI, PETER; *CALIBRATION AND VERIFICATION OF THE BOTTOM CHAMBERS (OCE-8026793*)*; 12 MONTHS $86,079

WATTS, ANTHONY B; *GRAVITY STUDIES OF THE NEW ZEALAND REGION (OCE-8109287)*; 3 MONTHS $13,042

LANGSETH, MARCUS G, AND HORAI, KI-ITI; *GEOTHERMAL MEASUREMENTS FROM THE DEEP SEA DRILLING PROJECT: HEAT TRANSFER IN THE OCEANIC CRUST (OCE-8109925)*; 12 MONTHS $66,515

FLOOD, ROGER D; *STUDIES OF CURRENT BED FORMS IN FINE-GRAINED, COHESIVE LACUSTRINE SEDIMENTS (OCE-8110412)*; 12 MONTHS $34,151

TAKAHASHI, TARO; *NORTH ATLANTIC STUDY OF THE TRANSIENT TRACERS IN THE OCEAN PROGRAM (NAS/TTO): INVESTIGATION OF PCO2 IN SEAWATER AND THE CARBONATE CHEMISTRY IN THE NORTH ATLANTIC OCEAN (OCE-8110646)*; 12 MONTHS $151,668

SANTSCHI, PETER; *REMOVAL AND FATE OF POLLUTANT TRACE METALS IN COASTAL WATERS (OCE-8111953)*; 24 MONTHS $99,165

LANGSETH, MARCUS G; *EQUIPMENT GRANT: SINGLE-CHANNEL SEISMIC SYSTEM AND DATA LOGGER FOR R/V CONRAD (OCE-8112990*)*; 12 MONTHS $195,200

COLUMBIA UNIVERSITY-PRESS

RAEBURN, VICKI P; *INTERNATIONAL SOUTHERN OCEAN STUDIES/ISOS): SOUTHERN OCEAN ATLAS (OCE-8022960)*; 12 MONTHS $61,265

CORNELL UNIVERSITY

LEIBOVICH, SIDNEY; *DYNAMICS OF THE OCEAN MIXED LAYER AND LANGMUIR CIRCULATIONS (OCE-7915332 A01)*; 12 MONTHS $38,836

KARIG, DANIEL E; *TECTONIC EVOLUTION OF THE ZAMBALES OPHIOLITE, WEST LUZON ARC (OCE-7919164 A02)*; 12 MONTHS $63,896

KAY, ROBERT W; *PETROLOGY AND GEOCHEMISTRY OF THE UPPER UNITS OF THE ZAMBALES OPHIOLITE, LUZON, PHILIPPINES (OCE-7919165 A01)*; 12 MONTHS $12,822

KARIG, DANIEL E; *STUDIES IN EAST ASIA TECTONICS & RESOURCES (SEATAR): THE SUNDA TRANSECT, PART 1, AUGMENTATION OF GEOLOGICAL & GEOPHYSICAL DATA FROM THE SUMATRA AREA (OCE-7924973 A01)*; 6 MONTHS $4,000

KARIG, DANIEL E; *DEFORMATION AND DEWATERING OF MARINE SEDIMENTS ON DEEP SEA TRENCH SLOPES (OCE-8018759)*; 18 MONTHS $66,430

BACHMAN, STEVEN B; *SEDIMENTATION AND EVOLUTION OF THE TERTIARY BASINS, CENTRAL VALLEY AND CORDILLERA CENTRAL, LUZON (OCE-8025285)*; 12 MONTHS $10,516

LONG ISLAND UNIVERSITY-SOUTHAMPTON CENTER

POSMENTIER, ERIC S; *FRONTAL ZONE MIXING AND ITS EFFECTS ON THE GROWTH AND DISTRIBUTION OF PHYTOPLANKTON POPULATIONS - DOUBLE DIFFUSIVE PROCESSES (OCE-8024671*)*; 12 MONTHS $18,165

SLOAN KETTERING INSTITUTE FOR CANCER RESEARCH

ANDERSON, ROBERT S; *PRIMA I I. EFFECTS OF POLLUTION ON IMMUNE COMPETENCE OF INVERTEBRATE MARINE ANIMALS (OCE-8016186)*; 12 MONTHS $78,965

STATE UNIVERSITY AT STONY BROOK

BOWMAN, MALCOLM J; *TIDAL STIRRING AND THE DISTRIBUTION OF PHYTOPLANKTON IN SHALLOW SEAS (OCE-7726970 A04*)*; 6 MONTHS $20,270

CARPENTER, EDWARD J; *NITROGEN FIXATION AND DENITRIFICATION IN EELGRASS (ZOSTERA) BEDS (OCE-7925444 A02)*; 6 MONTHS $6,986

SCRANTON, MARY I; *THE HYDROGEN CYCLE IN AN ANOXIC MARINE ENVIRONMENT (OCE-8007949 A01)*; 12 MONTHS $23,205

LEVINTON, JEFFREY S; *THE LATITUDINAL COMPENSATION HYPOTHESIS: ENERGETIC AND GROWTH ADAPTATION IN AN HARPACTICOID COPEPOD (OCE-8018743)*; 12 MONTHS $44,036

LOPEZ, GLENN R; *EFFECTS OF SEDIMENT-MICROORGANISM ASSOCIATIONS ON DEPOSIT-FEEDING MOLLUSCS (OCE-8025345)*; 18 MONTHS $43,144

LEVINTON, JEFFREY S; *DEPOSIT-FEEDERS: THEIR RESOURCES AND THE STUDY OF RESOURCE LIMITATION AND COMPETITION (OCE-8109919)*; 12 MONTHS $50,795

NORTH CAROLINA

DUKE UNIVERSITY

BARBER, RICHARD T, AND LANGFELDER, JAY; *OPERATION AND MAINTENANCE OF THE NATIONAL SCIENCE FOUNDATION OWNED COASTAL ZONE RESEARCH VESSEL, HULL NO. 186 (OCE-7913813)*; 60 MONTHS $1

PILKEY, ORRIN H; *SAND LAYER GEOMETRY ON FLAT OCEAN BASIN FLOORS (OCE-7918907 A01)*; $8,400

DUKE UNIVERSITY-MARINE LABORATORY

BARBER, RICHARD T; *COASTAL UPWELLING ECOSYSTEMS ANALYSIS (CUEA): PROJECT MANAGEMENT (CUEA COMPONET 26) (OCE-7803042 A04)*; $67,929

FORWARD, RICHARD B; *VERTICAL MIGRATIONS OF ESTUARINE ZOOPLANKTON (OCE-8007434)*; 24 MONTHS $81,218

BARBER, RICHARD T; *SHIPBOARD TECHNICIAN SUPPORT R/V EASTWARD AND CZRV (OCE-8022417)*; 12 MONTHS $49,495

BARBER, RICHARD T; *SHIP OPERATIONS SUPPORT (OCE-8022577)*; 12 MONTHS $509,471

BARBER, RICHARD T; *BIOLOGICAL CONSEQUENCES OF OCEAN-ATMOSPHERE TELECONNECTIONS: I. PRODUCTIVITY AND NUTRIENT STUDIES IN THE EQUATORIAL PACIFIC OCEAN CLIMATE STUDY IN 1981 (OCE-8103090)*; 12 MONTHS $22,965

BARBER, RICHARD T; *THE BIOLOGICAL RESPONSE TO VARIABILITY IN THE EASTERN EQUATORIAL PACIFIC (OCE-8110702)*; 12 MONTHS $123,028

RAMUS, JOSEPH S; *BIOLOGICAL RESPONSE TO TEMPORAL VARIABILITY IN ESTUARIES (OCE-8113228)*; 24 MONTHS $115,275

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

KAMYKOWSKI, DANIEL; *THE IMPLICATIONS OF NITRATE EXCESS AT SILICIC ACID DEPLETION IN SUBANTARCTIC SURFACE WATER (OCE-8100423)*; 24 MONTHS $52,599

FODOR, RONALD V; *PETROLOGY OF PASSIVE-MARGIN IGNEOUS ROCKS RECOVERED FROM OFFSHORE DRILLING, SOUTHEASTERN BRAZILIAN MARGIN (OCE-8109835)*; 24 MONTHS $42,904

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL-INSTITUTE OF MARINE SCIENCES

PETERSON, CHARLES H; *LARVAL SETTLEMENT INTO MARINE SOFT-SEDIMENT SYSTEMS: INTERACTIONS WITH THEE MEIOFAUNA (OCE-8106883)*; 24 MONTHS $9,532

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

MARTENS, C S, AND BENNINGER, LARRY K; *BIOGEOCHEMICAL CYCLING IN THE ORGANIC-RICH COASTAL ENVIRONMENT (OCE-8009245 A01)*; 12 MONTHS $74,697

OHIO

CASE WESTERN RESERVE UNIVERSITY

MC CALL, PETER L, AND MATISOFF, GERALD; *EFFECTS OF UNIONID BIVALVES ON THE PHYSICAL AND CHEMICAL PROPERTIES OF LAKE ERIE SEDIMENTS (OCE-8005103 A01*)*; 12 MONTHS $59,994

OHIO UNIVERSITY

WORSLEY, THOMAS R; *TIME RESOLUTION FOR MIOCENE OCEANIC RECONSTRUCTION CENOZOIC PALEOCEANOGRAPHY (OCE-7919309 A01)*; 24 MONTHS $57,419

WRIGHT STATE UNIVERSITY

AMON, JAMES P; *EFFECTS OF LOW NUTRIENT CONDITIONS ON GROWTH, REPRODUCTION, DEVELOPMENT AND SURVIVAL OF TWO MARINE PHYCOMYCETES GROWN IN CONTINUOUS CULTURE (OCE-8007958)*; 24 MONTHS $58,660

OREGON

OREGON STATE UNIVERSITY

SMALL, LAWRENCE F; *GRAZING CAPABILITIES OF THE LIFE CYCLE STAGES (CI TO ADULT) OF PSEUDOCALANUS SP. AND ACARTIA CLAUSI. (OCE-7808635 A03)*; 12 MONTHS $11,765

PILLSBURY, R D; *INTERNATIONAL SOUTHERN OCEAN STUDIES (ISOS): A STUDY OF THE DYNAMICS AND LONG-TERM VARIABILITY OF THE ANTARCTIC CIRCUMPOLAR CURRENT (OCE-7823579 A03)*; 12 MONTHS $240,284

SCHRADER, HANS J, AND SCHEIDEGGER, KENNETH F; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: OREGON STATE UNIVERSITY (OCE-7825443 A02)*; 12 MONTHS $20,705

CORLISS, JOHN B; *HYDROTHERMAL VENT WATERS AND DEPOSITS-GALAPAGOS RIFT (OCE-7826368 A02*)*; 6 MONTHS $12,540

MILLER, CHARLES B; *PRODUCTION CONTROL MECHANISMS OF THE SUBARCTIC PACIFIC PELAGIC ECOSYSTEM (OCE-7918687 A01)*; 12 MONTHS $71,246

CALDWELL, DOUGLAS R; *CONVECTION IN SEAWATER (OCE-7918904 A01)*; 12 MONTHS $96,030

KULM, LAVERNE D, AND KOMAR, PAUL D; *SEDIMENTATION PROCESSES IN DEEP SEA TRENCHES: CHILE TRENCH (OCE-7919361 A01)*; 12 MONTHS $119,886

SCHRADER, HANS J; *LAMINATED SEDIMENTS OF THE CENTRAL GULF OF CALIFORNIA: A STUDY OF CLIMATIC AND SEDIMENTOLOGIC INFORMATION PRESERVED OVER THE LAST 150,000 YEARS (ATM-7919458 A01*)*; 12 MONTHS $25,000

BIBEE, L DALE; *GORDA RIDGE TECTONICS: SEISMICITY AND HYDROTHERMAL ACTIVITY (OCE-7919481 A02)*; 12 MONTHS $66,200

HUYER, ADRIANA, AND SMITH, ROBERT L; *STUDIES OF THE PHYSICAL OCEANOGRAPHY OVER THE OREGON CONTINENTAL MARGIN (OCE-7925019 A01)*; 12 MONTHS $56,784

SCHEIDEGGER, KENNETH F; *OCEANIC BASALTS FROM THE CHILE TRENCH: PETROGENESIS AND SECONDARY ALTERATION (OCE-7926018 A01)*; 12 MONTHS $87,263

LEVI, SHAUL; *GEOMAGNETIC FLUCTUATIONS RECORDED IN RAPIDLY DEPOSITED MARINE SEDIMENTS FROM THE GULF OF CALIFORNIA OF DSDP SITES 480 AND 479 (OCE-7926440 A01)*; $4,543

BAROSS, JOHN A, AND GORDON, LOUIS I; *DISSOLVED GASES IN MARINE WATERS: CHEMICAL AND MICROBIOLOGICAL PARAMETERS EFFECTING FORMATION, UTILIZATION AND NATURAL FLUXES (OCE-7927283 A01*)*; 7 MONTHS $6,440

HOLMAN, ROBERT A; *A SIMPLE SURF ZONE FORCING MODEL FOR INFRAGRAVITY EDGE WAVES (OCE-8007972*)*; 12 MONTHS $11,882

LUBCHENCO, JANE; *DOCTORAL DISSERTATION RESEARCH: THE CONSEQUENCES OF CONSUMER DIVERSITY TO COMMUNITY ORGANIZATION: THE ROLE OF A GUILD OF MARINE HERBIVORES (OCE-8008159)*; 24 MONTHS $9,047

HUYER, ADRIANA; *COASTAL OCEAN DYNAMICS EXPERIMENT (CODE): SHIPBOARD HYDROGRAPHY (OCE-8014943 A01)*; 12 MONTHS $147,974

DE SZOEKE, ROLAND A; *AN UPPER OCEAN EXPERIMENT: THERMISTOR CHAIN MOORINGS IN STREX (OCE-8016904)*; 12 MONTHS $54,520

NELSON, DAVID M; *CYCLING OF SILICON AND THE ROLE OF SILICON IN PHYTOPLANKTON DYNAMICS IN GULF STREAM WARM-CORE RINGS (OCE-8017269*)*; 12 MONTHS $49,020

SUESS, ERWIN; *CONFERENCE: COASTAL UPWELLING AND ITS SEDIMENT RECORD (OCE-8017565)*; 12 MONTHS $28,031

MILLER, CHARLES B; *SUBARCTIC PACIFIC ECOSYSTEM RESEARCH (SUPER) - A PLANNING PROJECT (OCE-8017573)*; 12 MONTHS $63,702

SMITH, ROBERT L, AND ALLEN, JOHN S; *A STUDY OF VARIABILITY OF THE EASTERN EQUATORIAL BOUNDARY UNDERCURRENT OFF SOUTH AMERICA (OCE-8017929*)*; 12 MONTHS $323,223

DILLON, THOMAS M, AND RICHMAN, JAMES G; *MEASUREMENTS OF MICROSTRUCTURE AND TURBULENT DISSIPATION IN THE SURFACE WAVE ZONE (OCE-8018445)*; 12 MONTHS $71,193

CHEN, CHEN-TUNG A; *ON THE ROLE OF DEEP OCEANS AS A CO2 SINK (OCE-8018770)*; 12 MONTHS $22,289

CHEN, CHEN-TUNG A; *ON THE ROLE OF DEEP OCEANS AS A CO2 SINK (29E-8018770 A01)*; $12,289

MENGE, BRUCE A, AND LUBCHENCO, JANE; *HETEROGENEITY AND COMMUNITY ORGANIZATION IN A TEMPERATE AND A TROPICAL ROCKY INTERTIDAL COMMUNITY (OCE-8019020)*; 12 MONTHS $140,024

KELLER, GEORGE H; *OCEANOGRAPHIC INSTRUMENTATION (OCE-8021172)*; 12 MONTHS $71,256

REDMOND, RICHARD G; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-8021174)*; 12 MONTHS $31,020

REDMOND, RICHARD G; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-8021174 A01)*; $96,300

REDMOND, RICHARD G; *SHIPBOARD TECHNICIAN SUPPORT (OCE-8021175)*; 12 MONTHS $124,575

REDMOND, RICHARD G; *SHIP OPERATIONS SUPPORT (OCE-8021176)*; 12 MONTHS $1,377,422

MENGE, BRUCE A; *DOCTORAL DISSERTATION RESEARCH: COMMUNITY DEVELOPMENT IN BEDS OF THE SURFGRASS PHYLLOSPADIX SCOULERI HOOK (OCE-8022867)*; 24 MONTHS $6,780

SMITH, ROBERT L; *STUDIES OF LOW LATITUDE SHELF DYNAMICS IN THE EASTERN PACIFIC (OCE-8024116)*; 12 MONTHS $75,065

DUNCAN, ROBERT A; *GEOCHRONOLOGY OF LINEAR ASEISMIC RIDGES (OCE-8024284)*; 24 MONTHS $109,721

DYMOND, JACK R; *NOBLE GAS STUDIES OF THE TRAPPED MANTLE GASES IN DEEP-SEA GLASSY BASALTS (OCE-8024285)*; 12 MONTHS $77,131

BOEHLERT, GEORGE W; *THE RELATIONSHIP BETWEEN PHYSICAL FACTORS AND BEHAVIORAL MECHANISMS IN LARVAL FISH RECRUITMENT TO ESTUARINE NURSERY AREAS (OCE-8025214)*; 24 MONTHS $116,080

ALLEN, JOHN S, HUYER, ADRIANA, AND SMITH, ROBERT L; *A LARGE SCALE WEST COAST SHELF EXPERIMENT (OCE-8026131*)*; 36 MONTHS $685,100

DYMOND, JACK R; *AN EVALUATION OF PARTICULATE FLUX TO THE SEA FLOOR AND ITS IMPORTANCE TO FERROMANGANESE NODULE GENESIS (OCE-8026744*)*; 12 MONTHS $161,250

HEATH, G ROSS; *MANOP PHASE III. SEDIMENTARY GEOCHEMISTRY AT MANOP LANDER SITES, AND MANOP CORE AND NODULE CURATION AND COLLECTION (OCE-8101845*)*; 12 MONTHS $106,000

MORITA, RICHARD Y; *BACTERIAL SURVIVAL AND RECOVERY MECHANISMS: SIGNIFICANCE IN MARINE ENVIRONMENT (OCE-8108366)*; 24 MONTHS $85,000

UNIVERSITY OF OREGON - EUGENE

RUDY, PAUL P; *DOCTORAL DISSERTATION RESEARCH: SULFIDE-DEPENDENT PHOTOSYNTHESIS IN A PACIFIC ESTUARY (OCE-8018996)*; 24 MONTHS $3,790

PENNSYLVANIA

LEHIGH UNIVERSITY

CARSON, BOBB; *MODERN SEDIMENT TRANSPORT AND ACCUMULATION IN QUINAULT CANYON: A STUDY OF THE DYNAMICS AND EFFECTS OF TERRIGENOUS SEDIMENT DISPERSAL (OCE-8009227 A01)*; 12 MONTHS $110,369

PENNSYLVANIA STATE UNIVERSITY

DUNSON, WILLIAM A; *PHYSIOLOGICAL ECOLOGY OF SEA SNAKES OF THE SAHUL SHELF (PCM-7918393 A01*)*; $75,000

BURRIS, JOHN E; *THE CYCLING OF CARBON, NITROGEN, AND PHOSPHORUS IN CORAL-ZOOXANTHELLAE SYMBIOSES (PCM-7918796*)*; 24 MONTHS $75,000

LASAGA, ANTONIO C; *EXPERIMENTAL STUDY OF MULTICOMPONENT AND ION PAIR DIFFUSION AND APPLICATIONS TO MARINE TRANSPORT PHENOMENA (OCE-7919830 A01)*; 12 MONTHS $33,666

RHODE ISLAND

BROWN UNIVERSITY

IMBRIE, JOHN; *CLIMATE, LONG-RANGE INVESTIGATION, MAPPING, AND PREDICTION (CLIMAP): GLOBAL PALEO-OCEANOGRAPHIC STUDIES OF LATE QUATERNARY OCEAN CIRCULATION AND CLIMATE (OCE-7722888 A04)*; 12 MONTHS $149,800

IMBRIE, JOHN; *CLIMATE, LONG-RANGE INVESTIGATION, MAPPING AND PREDICTION (CLIMAP): GLOGAL PALEO-OCEANOGRAPHIC STUDIES OF LATE QUATERNARY OCEAN CIRCULATION AND CLIMATE (OCE-7722888 A05)*; $27,500

FORSYTH, DONALD W; *VEMA TRANSFORM FAULT: STRUCTURE, SEISMICITY, AND TECTONICS (OCE-7909404 A01)*; 12 MONTHS $39,194

FORSYTH, DONALD W; *OCEANOGRAPHER FRACTURE ZONE: STRUCTURE AND DYNAMICS OF A TRANSFORM FAULT AND SPREADING CENTER, PART 1 (OCE-7919411 A01)*; 12 MONTHS $57,469

IMBRIE, JOHN; *PROJECT SPECMAP: MAPPING VARIATIONS IN OCEAN SPECTRA OVER A FREQUENCY RANGE 10-5 TO 10-1 CYCLES PER YEAR (ATM-8018897*);* 12 MONTHS $94,000

PRELL, WARREN L; *EVOLUTION OF MODES OF OCEANIC VARIABILITY DURING THE PLIO-PLEISTOCENE (OCE-8109456);* 36 MONTHS $75,767

GORDON RESEARCH CONFERENCES

CRUICKSHANK, ALEXANDER M; *INTERNATIONAL TRAVEL FUNDS FOR FOREIGN SCIENTISTS TO ATTEND THE SUMMER 1981 GORDON RESEARCH CONFERENCE ON CHEMICAL OCEANOGRAPHY (OCE-8100037);* 12 MONTHS $19,550

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY

MOORE, THEODORE C; *CLIMATE, LONG-RANGE INVESTIGATION, MAPPING AND PREDICTION (CLIMAP): GLOBAL PALEO-OCEANOGRAPHIC STUDIES OF LATE QUATERNARY OCEAN CIRCULATION AND CLIMATE (OCE-7723472 A03);* 6 MONTHS $17,400

ROSSBY, THOMAS; *LAGRANGIAN OBSERVATIONS OF OCEAN CIRCULATION IN THE NORTH ATLANTIC SUBTROPICAL GYRE (OCE-7818662 A03);* 12 MONTHS $211,000

SCHILLING, JEAN-GUY; *PETROLOGICAL AND GEOCHEMICAL STUDIES OF THE MID-ATLANTIC RIDGE: SOUTH ATLANTIC, PART 1. (OCE-7824690 A02);* 18 MONTHS $176,000

SIEBURTH, JOHN M; *OPEN OCEAN PICOPLANKTON AND NANOPLANKTON: ECOLOGY AND TROPHODYNAMICS (OCE-7826388 A02);* 12 MONTHS $137,000

SIGURDSSON, HARALDUR; *PETROGRAPHIC PROVINCES OF THE MID-ATLANTIC RIDGE (OCE-7913805 A01);* 12 MONTHS $77,259

MOORE, THEODORE C, AND KENNETT, JAMES P; *CENOZOIC PALEOCEANOGRAPHY PROJECT (CENOP) (OCE-7914594 A02);* $8,525

DURBIN, EDWARD G, AND DURBIN, ANN G; *A COMPARISON OF THE BIOENERGETICS OF FEEDING IN TWO PLANKTON FEEDING FISHES: THE MENHADEN BREVOORTIA TYRANNUS AND THE HERRING CLUPEA HARENGUS (OCE-7919551 A01);* 12 MONTHS $81,083

BENDER, MICHAEL L; *PORE WATER CHEMISTRY OF MOUNDS ABYSSAL HYDROTHERMAL FIELD SEDIMENTS (OCE-7921137 A01);* 12 MONTHS $61,523

SMAYDA, THEODORE J, AND HITCHCOCK, GARY L; *PRODUCTION AND BIOMASS FEATURES OF PHYTOPLANKTON SIZE CLASSES ENTRAINED IN WARM CORE RINGS AND SURROUNDING WATERMASSES (OCE-8017272*);* 12 MONTHS $117,174

LARSON, ROGER L, AND DETRICK, R S; *OCEANIC CRUSTAL STRUCTURE IN THE WESTERN NORTH ATLANTIC: ROUGH-SMOOTH BASEMENT BOUNDARY (OCE-8017328);* 24 MONTHS $152,397

MAYER, LARRY A, AND SILVA, ARMAND J; *CONSOLIDATION AND STRESS HISTORY OF DEEP-SEA SEDIMENTS: D S D P HYDRAULIC PISTON CORE SAMPLES (OCE-8018480*);* 12 MONTHS $24,530

QUINN, JAMES G, AND REQUEJO, ADOLFO G; *GEOCHEMISTRY OF CYCLOALKENES IN ESTUARINE AND COASTAL SEDIMENTS (OCE-8018831);* 12 MONTHS $28,730

LEINEN, MARGARET; *PROJECT SPECMAP: MAPPING VARIATIONS IN OCEAN SPECTRA OVER A FREQUENCY RANGE 10-5 TO 10-1 CYCLES PER YEAR (ATM-8018896*);* 12 MONTHS $52,000

KENNETT, JAMES P; *HIGH RESOLUTION HOLOCENE PALEOCLIMATOLOGY AND STRATIGRAPHY, ORCA BASIN, GULF OF MEXICO (ATM-8019059*);* 12 MONTHS $17,000

EVANS, DAVID L; *VERTICAL PROFILING OF VELOCITY, DENSITY, AND DISSIPATION (OCE-8019859);* 12 MONTHS $83,811

GRIFFIN, JAMES J; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-8021924);* 12 MONTHS $60,352

GRIFFIN, JAMES J; *SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-8021924 A01);* $66,967

GRIFFIN, JAMES J; *SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-8021924 A02);* $10,020

GRIFFIN, JAMES J; *MARINE TECHNICIAN SUPPORT (OCE-8021925);* 12 MONTHS $132,413

KNAUSS, JOHN A; *SHIP OPERATIONS SUPPORT (OCE-8021926);* 12 MONTHS $1,500,000

GRIFFIN, JAMES J; *OCEANOGRAPHIC INSTRUMENTATION (OCE-8021928);* 12 MONTHS $32,632

KESTER, DANA R; *CHEMICAL STUDIES OF NUTRIENTS IN WARM CORE RINGS (OCE-8022989);* 12 MONTHS $164,943

MOORE, THEODORE C, AND LEINEN, MARGARET; *VARIABILITY OF ATMOSPHERIC CIRCULATION AND OCEANIC RESPONSE: LATE MIOCENE TO PRESENT (OCE-8024367);* 24 MONTHS $83,506

SMAYDA, THEODORE J; *DOCTORAL DISSERTATION RESEARCH: A MECHANISTIC MODEL OF PHYTOPLANKTON SPECIES DYNAMICS AND ITS APPLICATION TO THE PHYTOPLANKTON OF NARRAGANSETT BAY, RHODE ISLAND (OCE-8025030);* 24 MONTHS $4,360

BENDER, MICHAEL L; *GEOCHEMISTRY OF A MARIANA TROUGH HYDROTHERMAL AREA (OCE-8025203*);* 18 MONTHS $129,234

BENDER, MICHAEL L, AND HEGGIE, DAVID T; *BENTHIC FLUXES AND PORE WATER GEOCHEMISTRY AT BOTTOM LANDER SITES (OCE-8101830*);* 12 MONTHS $93,613

DETRICK, R S; *EQUIPMENT GRANT: A SEISMIC PROFILING SYSTEM FOR R/V ENDEAVOR (OCE-8108935);* 12 MONTHS $100,655

ROSSBY, THOMAS; *STUDIES OF THE VELOCITY STRUCTURE OF THE GULF STREAM INCLUDING MASS AND HEAT TRANSPORT EAST OF CAPE HATTERAS (OCE-8110914);* 12 MONTHS $81,711

DUCE, ROBERT A, AND FASCHING, JAMES L; *SEA-AIR EXCHANGE PROJECT (SEAREX) - MANAGEMENT AND FIELD SUPPORT PROGRAM (OCE-8111894*);* 12 MONTHS $479,127

DUCE, ROBERT A, FASCHING, JAMES L, MACINTYRE, FERREN, AND MERRILL, JOHN T; *SEA-AIR EXCHANGE PROJECT (SEAREX) - ANOMALOUSLY ENRICHED ELEMENT IN THE MARINE ATMOSPHERE: SOURCES, FLUXES AND OCEANIC EXCHANGE MECHANISMS (OCE-8111895);* 12 MONTHS $411,483

UNIVERSITY OF RHODE ISLAND

DAUPHIN, J PAUL; *STUDIES OF PROCESSES CONTROLLING THE COMPOSITION AND DISTRIBUTION OF DEEP SEA FERROMANGANESE NODULES - MANOP COORDINATION AND TRAVEL (OCE-7823014 A03);* $12,600

DRISCOLL, ALAN H; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: UNIVERSITY OF RHODE ISLAND (OCE-7910443 A01);* 12 MONTHS $25,551

WATTS, D R; *THE DYNAMICS OF GULF STREAM MEANDERS (OCE-7921029 A02);* 12 MONTHS $77,134

DAUPHIN, J PAUL; *STUDIES OF PROCESSES CONTROLLING THE COMPOSITION AND DISTRIBUTION OF DEEP-SEA FERROMANGANESE NODULES: MANOP COORDINATION AND TRAVEL (OCE-8100182*);* 12 MONTHS $182,920

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

MOORE, WILLARD S; *DISTRIBUTION OF RADIUM-228 IN THE NORTH ATLANTIC (29E-8019700*);* 12 MONTHS $34,151

FILLON, RICHARD H; *HEMIPELAGIC SEDIMENTATION IN THE LABRADOR SEA-NORTHWEST ATLANTIC OCEAN: A FEASIBILITY STUDY (OCE-8024280);* 12 MONTHS $30,698

MOORE, WILLARD S; *RADIOCHEMICAL STUDIES OF MANGANESE NODULE DEPOSITION PROCESSES (OCE-8100038*);* 12 MONTHS $89,640

WOODIN, SARAH A; *THE IMPORTANCE OF BROWSING PREDATORS IN INFAUNAL ASSEMBLAGES (OCE-8109596);* 36 MONTHS $111,927

HEALY-WILLIAMS , NANCY; *FOURIER BIOMETRICS OF PLANKTONIC FORAMINIFERA AS A QUANTITATIVE PALEOECOLOGICAL TOOL (OCE-8110167);* 12 MONTHS $26,010

TEXAS

TEXAS A & M UNIVERSITY

TREADWELL, T K; *INTERNATIONAL SOUTHERN OCEAN STUDIES (ISOS): CHEMICAL AND PHYSICAL OCEANOGRAPHY OF THE ANTARCTIC CIRCUMPOLAR CURRENT AND FRONTAL ZONES IN THE REGION OF DRAKE PASSAGE (OCE-7821593 A02);* 12 MONTHS $169,992

VASTANO, ANDREW C; *NORTH PACIFIC EXPERIMENT (NORPAX): TRAJECTORY AND TEMPERATURE ANALYSES OF SATELLITE TRACKED BUOY OBSERVATIONS IN THE NORTH PACIFIC (OCE-7921271 A01);* 12 MONTHS $22,837

BIGGS, DOUGLAS C; *DOCTORAL DISSERTATION RESEARCH: INFLUENCE OF NATURAL PARTICLE DIETS ON EGG LAYING AND HATCHING SUCCESS OF ACARTIA TONSA IN EAST LAGOON, GALVESTON, TEXAS (OCE-8016897);* 24 MONTHS $10,610

SCHINK, DAVID R, AND GUINASSO, NORMAN L; *RADON AND RADIUM IN WARM CORE RINGS (OCE-8017268);* 12 MONTHS $97,040

POWELL, ERIC N, AND BRIGHT, THOMAS J; *THE EAST FLOWER GARDEN BRINE SEEP: IMPLICATIONS FOR BENTHIC COMMUNITY STRUCTURE (OCE-8019458);* 12 MONTHS $40,574

SICILIO, FRED; *POLLUTANT RESPONSES IN MARINE ANIMALS (PRIMA) ANALYTICAL CHEMISTRY (OCE-8019601);* 12 MONTHS $219,781

SCHINK, DAVID R, AND GUINASSO, NORMAN L; *EFFECTS OF VERTICAL MIXING IN SEDIMENTS ON THE CHEMICAL INTERACTIONS BETWEEN DEEP SEA SEDIMENTS AND SEA WATER (OCE-8020389);* 12 MONTHS $120,066

BROOKS, J M; *STUDIES OF VOLATILE ORGANICS IN THE OCEAN (OCE-8020560);* 12 MONTHS $58,521

TREADWELL, T K; *IMPROVEMENTS FOR BASIC SHIP OPERATIONS (OCE-8021915);* 12 MONTHS $39,300

TREADWELL, T K; *SHIP OPERATIONS SUPPORT (OCE-8021923);* 12 MONTHS $561,534

TREADWELL, T K; *SHIP OPERATIONS SUPPORT (29E-8021923 A02);* $48,632

TREADWELL, T K; *SHIPBOARD TECHNICIAN SUPPORT (OCE-8022352);* 12 MONTHS $80,000

TREADWELL, T K; *OCEANOGRAPHIC INSTRUMENTATION (OCE-8022353);* 12 MONTHS $48,050

VASTANO, ANDREW C; *SATELLITE ANALYSES OF MESOSCALE PHENOMENA IN THE NORTHWESTERN PACIFIC OCEAN (OCE-8026037);* 12 MONTHS $34,547

BROOKS, DAVID A; *UPWELLING AND MIXING OF HEAT, SALT, AND NUTRIENTS IN MAINE SHELF WATERS (OCE-8100078);* 12 MONTHS $59,645

FRYXELL, GRETA A; *PHYTOPLANKTON TAXA IN WARM CORE RINGS: QUANTITATIVE AND COMPARATIVE STUDIES (OCE-8101785*);* 12 MONTHS $42,857

TREADWELL, T K; *INTERNATIONAL SOUTHERN OCEAN STUDIES (ISOS): CENTRAL ADMINISTRATION, COORDINATION AND PLANNING (OCE-8101853);* 12 MONTHS $12,530

HOFMANN, EILEEN E; *A MODEL OF BIOLOGICAL RESPONSES TO GULF STREAM INDUCED UPWELLING (OCE-8109446);* 12 MONTHS $35,791

BROOKS, DAVID A; *SYNTHESIS AND INTERPRETATION OF THE GULF STREAM MEANDERS EXPERIMENT DATA SETS (OCE-8112451)*; 12 MONTHS $37,032

UNIV OF TEXAS AT AUSTIN-MARINE SCIENCE INSTITUTE AT PORT ARANSAS

MCCOWAN, DOUGLAS W, AND NORTON, IAN; *LARGE APERTURE SEISMIC EXPERIMENT (LASE) (16E-8001728 A02)*; 12 MONTHS $89,911

AMOS, ANTHONY F; *OCEANOGRAPHIC INSTRUMENTATION (OCE-8022113)*; 12 MONTHS $2,130

THOMPSON, JOHN H; *SHIP OPERATIONS SUPPORT (OCE-8022114)*; 12 MONTHS $63,000

THOMPSON, JOHN H; *SHIP OPERATIONS SUPPORT (29E-8022114 A01)*; $9,000

UNIV OF TEXAS AT EL PASO

GIAM, CHOO SENG, AND ATLAS, E L; *SEA-AIR EXCHANGE PROJECT (SEAREX)-ANTHROPOGENIC ORGANICS IN THE MARINE ATMOSPHERE: FLUXES, SOURCES AND MECHANISMS OF AIR/SEA EXCHANGE (OCE-8111418)*; 12 MONTHS $139,840

VIRGIN ISLANDS

FAIRLEIGH DICKINSON UNIVERSITY-WEST INDIES LABORATORY

HUBBARD, DENNIS K; *SEDIMENT DYNAMICS OF SHALLOW WATER CARBONATES: CANE BAY OF ST. CROIX ISLAND (OCE-8019270)*; 12 MONTHS $40,100

VIRGINIA

COLLEGE OF WILLIAM AND MARY-VIRGINIA INSTITUTE OF MARINE SCIENCE

WEBB, KENNETH L; *DEVELOPMENT AND TESTING OF AN AUTOMATED DISCRIMINATING UNICELLULAR PLANKTON ENUMERATION TECHNIQUE (OCE-8026030)*; 18 MONTHS $34,891

MUSICK, JOHN A; *A COMPARATIVE STUDY OF THE STRUCTURE AND FUNCTION OF DEMERSAL DEEP-SEA FISH ASSEMBLAGES IN TROPICAL AND TEMPERATE ECOSYSTEMS (OCE-8026030 A01)*; 6 MONTHS $23,315

MUSICK, JOHN A; *DOCTORAL DISSERTATION RESEARCH: A COMPARATIVE STUDY OF LIFE HISTORY PATTERNS OF DEMERSAL DEEP-SEA FISH ASSEMBLAGES IN TROPICAL AND TEMPERATE ECOSYSTEMS (OCE-8104574)*; 24 MONTHS $3,825

MUSICK, JOHN A; *DOCTORAL DISSERTATION RESEARCH IN THE FUNCTIONAL MORPHOLOGY AND FEEDING STRATEGIES OF DEMERSAL DEEP-SEA NEOBYTHITINE FISHES (OCE-8105599)*; 24 MONTHS $4,380

HAAS, LEONARD W; *MICROZOOPLANKTON SECONDARY PRODUCTION: HETEROTROPHIC MICROFLAGELLATES GRAZING ON HETEROTROPHIC BACTERIA AND COCCOID CYANOBACTERIA (OCE-8110396)*; 24 MONTHS $109,961

DEPARTMENT OF DEFENSE-DEFENSE LOGISTICS AGENCY

BICKFORD, J E; *PROVISION OF FUEL FOR CERTAIN OCEANOGRAPHIC RESEARCH VESSELS (OCE-8025642 A01)*; 12 MONTHS $365,000

DEPARTMENT OF NAVY-OFFICE OF NAVAL RESEARCH

HAMILTON, GORDON R; *DISSERTATION SYMPOSIUM ON CHEMICAL OCEANOGRAPHY, FEBRUARY 1981 (OCE-8100651*)*; $16,700

OLD DOMINION UNIVERSITY

KROLL, JOHN E; *STUDIES OF VERTICALLY PROPAGATING SURFACE GENERATED INERTIAL OSCILLATIONS AND UNSTABLE BULK MIXED LAYER FLOW (OCE-8006048 A01*)*; 12 MONTHS $20,600

JOHNSON, DONALD R; *SEASONAL CHANGES IN UPWELLING CHARACTERISTICS IN THE CHILEAN UPWELLING ZONE (OCE-8017595)*; 12 MONTHS $19,991

JOHNSON, RONALD E; *IPA MOBILITY ASSIGNMENT (RONALD E JOHNSON) (OCE-8020235 A01)*; 1 MONTHS $1,363

WASHINGTON

UNIVERSITY OF WASHINGTON

ANDERSON, GEORGE C, AND WATKINS, J BOYCE; *SHIP OPERATIONS SUPPORT (OCE-7723088 A03)*; 13 MONTHS $100,000

FROST, BRUCE W; *RELATIVE ABUNDANCE OF COPEPOD SPECIES IN TEMPERATE-BOREAL PELAGIC COMMUNITIES (OCE-7818263 A02)*; 6 MONTHS $21,510

JUMARS, PETER A; *THE ROLE OF PREDATION IN SOFT-BOTTOM BENTHIC SUCCESSION (OCE-7824687 A02)*; 12 MONTHS $35,648

CLARKE, ALLAN J; *THE NONLINEAR GENERATION OF LONG PERIOD TIDES ON CONTINENTAL SHELVES (OCE-7907042 A02)*; $13,200

LORENZEN, CARL J; *ORIGIN AND DISTRIBUTION OF ORGANIC MATTER IN THE DEEP SEA (OCE-7918838 A01)*; 12 MONTHS $80,179

DEVOL, ALLAN H; *STUDIES OF BIOCHEMICAL OXIDATION RATES IN MARINE SEDIMENTS (OCE-7919176 A01)*; 12 MONTHS $44,378

AHMED, SAIYED I; *STUDIES OF NITROGEN UTILIZATION IN MARINE PHYTOPLANKTON: ENZYMATIC RESPONSE TO NITRATE AND AMMONIA UPTAKE AND FLUXES IN INTERNAL POOLS OF INTERMEDIATES OF N ASSIMILATION (OCE-7919591 A01*)*; 12 MONTHS $93,387

TAFT, BRUCE A, AND MCWILLIAMS, JAMES C; *JOINT U.S.-U.S.S.R. MED-OCEAN DYNAMICS EXPERIMENT (POLYMODE): ANALYSIS AND INTERPRETATION OF DENSITY MEASUREMENTS FROM A LOCAL DYNAMICS EXPERIMENT (OCE-7923951 A01)*; 6 MONTHS $18,554

RATTRAY, MAURICE, AND DWORSKI, JURAJ G; *INTERNATIONAL SOUTHERN OCEAN STUDIES (ISOS): DIAGNOSTIC DETERMINATION OF THE LOW-FREQUENCY CURRENTS IN THE PACIFIC SECTOR OF THE SOUTHERN OCEAN (OCE-7924318 A01)*; 12 MONTHS $52,200

CREAGER, JOE S, AND MCMANUS, DEAN A; *MARINE GEOLOGICAL SAMPLE COLLECTIONS: UNIVERSITY OF WASHINGTON (OCE-7924398 A01*)*; 12 MONTHS $20,781

JOHNSON, HARLAN P, AND DELANEY, JOHN R; *HOT SPOT-RIDGE CREST-FRACTURE ZONE DYNAMICS: A COMPREHENSIVE STUDY OF THE JUAN DE FUCA - GORDA RIDGE SYSTEM (OCE-7925041 A01)*; 12 MONTHS $130,886

SANFORD, THOMAS B; *JOINT U.S.-U.S.S.R. MID-OCEAN DYNAMICS EXP. (POLYMODE): A STUDY OF THE VERTICAL STRUCTURE & ENERGY OF MID-OCEAN EDDIES USING ELECTROMAGNETIC & DOPPLER VELOCITY & DENSITY PROFILERS (OCE-8000020 A01)*; 24 MONTHS $124,600

LEWIN, JOYCE; *PHOTOSYNTHETIC AND NON-PHOTOSYNTHETIC CONTRIBUTORS TO NORTH PACIFIC NANOPLANKTON (OCE-8007297)*; 24 MONTHS $83,784

WELANDER, PIERRE; *THEORETICAL MODELLING OF OCEAN CIRCULATION AND OCEAN-ATMOSPHERE INTERACTION (OCE-8007927 A01)*; 12 MONTHS $41,430

STRATHMANN, RICHARD R; *MARINE INVERTEBRATE LARVAE FEEDING WITH CILIA (OCE-8008310)*; 12 MONTHS $57,986

WISSMAR, ROBERT C, SIMENSTAD, CHARLES A, AND EGGERS, DOUGLAS M; *OPTIMAL MANAGEMENT OF CHUM SALMON (OCE-8008637 A02)*; 12 MONTHS $13,125

LORENZEN, CARL J; *FACTORS CONTROLLING PHOTOSYNTHETIC LIGHT UTILIZATION EFFICIENCIES OF NATURAL PHYTOPLANKTON (OCE-8017603)*; 24 MONTHS $58,007

PAINE, ROBERT T; *DOCTORAL DISSERTATION RESEARCH: EXPERIMENTAL STUDIES ON THE ECOLOGICAL ORGANIZATION OF CORAL REEF FISH ASSEMBLAGES (OCE-8017757)*; 24 MONTHS $8,602

EMERSON, STEVEN R; *THE EFFECT OF ANNEROBIC PROCESSES ON THE CHEMISTRY OF SEAWATER (OCE-8018189)*; 12 MONTHS $111,481

RODEN, GUNNAR I, AND TAFT, BRUCE A; *STUDY OF THE THERMOHALINE STRUCTURE AND CIRCULATION NEAR THE EMPEROR SEAMOUNTS (OCE-8018227)*; 12 MONTHS $59,317

NOWELL, ARTHUR R; *TIME DEPENDENT TURBULENT BOUNDARY LAYERS IN TIDAL FLOWS (OCE-8018304)*; 12 MONTHS $89,623

MURRAY, JAMES W; *DIAGENESIS IN MARINE SEDIMENTS (OCE-8018317)*; 12 MONTHS $73,578

MURRAY, JAMES W; *MECHANISMS CONTROLLING THE DISTRIBUTION OF TRACE METALS IN SEAWATER (OCE-8018335)*; 12 MONTHS $82,883

ANDERSON, GEORGE C, AND WATKINS, J BOYCE; *PERMANENT SHIPBOARD SCIENTIFIC INSTALLATIONS (OCE-8021326)*; 12 MONTHS $19,200

ANDERSON, GEORGE C, AND SANDS, WALTER C; *SHIPBOARD TECHNICIAN SUPPORT (OCE-8021921)*; 12 MONTHS $110,000

ANDERSON, GEORGE C, AND SANDS, WALTER C; *OCEANOGRAPHIC INSTRUMENTATION (OCE-8021922)*; 12 MONTHS $45,194

ANDERSON, GEORGE C, AND WATKINS, J BOYCE; *SHIP OPERATIONS SUPPORT (OCE-8022121)*; 12 MONTHS $1,800,000

HICKEY, BARBARA M; *NON-LOCAL FORCING ON NORTHWESTERN CONTINENTAL SHELVES (OCE-8023465)*; 12 MONTHS $71,723

HEDGES, JOHN I; *GEOCHEMISTRY OF HUMIC SUBSTANCES IN RECENT MARINE SEDIMENTS (OCE-8023970)*; 12 MONTHS $89,817

WEARN, RICHARD B, AND BAKER, D JAMES; *INTERNATIONAL SOUTHERN OCEAN STUDIES (ISOS): DYNAMICAL RESPONSE AND TRANSPORT OF ANTARCTIC CIRCUMPOLAR CURRENT (OCF 8024905)*; 12 MONTHS $148,500

TAFT, BRUCE A, AND MCWILLIAMS, JAMES C; *JOINT U.S.-U.S.S.R. MID-OCEAN DYNAMICS EXPERIMENT (POLYMODE): INTERPRETATION OF DESITY MASUREMENTS FROM LOCAL DYNAMICS EXPERIMENT (OCE-8024912)*; 12 MONTHS $196,600

TAFT, BRUCE A; *NORTH PACIFIC EXPERIMENT (NORPAX): ANALYSIS OF DENSITY AND OXYGEN DATA FROM HAWAII-TAHITI SHUTTLE EXPERIMENT (OCE-8024913)*; 24 MONTHS $191,968

PAINE, ROBERT T; *FAUNAL AND TROPHIC STUDIES OF ROCKY INTERTIDAL COMMUNITIES (OCE-8025578)*; 12 MONTHS $49,306

MURRAY, JAMES W; *GEOCHEMISTRY OF THE SEDIMENT/WATER INTERFACE (OCE-8101844*)*; 12 MONTHS $65,978

EMERSON, STEVEN R; *DIAGENESIS AND DIFFUSION IN INTERSTITIAL WATERS (OCE-8101846*)*; 12 MONTHS $70,979

FROST, BRUCE W; *FOOD LIMITATION IN MARINE ZOOPLANKTON (OCE-8108673)*; 12 MONTHS $66,786

SMITH, J DUNGAN; *MIXING IN STRATIFIED ESTUARIES (OCE-8110915)*; 12 MONTHS $100,637

GARMANY, JAN D; *A STUDY OF ANISOTROPIC GRADIENTS IN THE UPPER MANTLE (OCE-8111146)*; 12 MONTHS $29,512

EWART, TERRY E; *DEEP OCEAN MIXING AND TEMPERATURE STRUCTURE STUDIES (OCE 8111499)*; 12 MONTHS $76,000

WALLA WALLA COLLEGE

BARNES, ROSS O; *INTERRELATIONSHIPS BETWEEN THE BIOGEOCHEMISTRIES OF THE CARBON, NITROGEN AND SULFUR CYCLES IN MARINE SEDIMENTS: PART III (OCE-8018449)*; 12 MONTHS $30,193

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

MAGNUSON, JOHN J, AND CLAY, CLARENCE S; *DISTRIBUTIONAL ECOLOGY OF FISHES AND MACROINVERTEBRATES AS RELATED TO*

DAILY AND SEASONAL DYNAMICS OF WATER MASSES ON THE CONTINENTAL SHELF (OCE-7921399 A02); 6 MONTHS $28,000

UNIVERSITY OF WISCONSIN-OSHKOSH

KARL, JOHN H; *TECTONICS OF THE GUAYMAS BASIN IN THE GULF OF CALIFORNIA: AEROMAGNETIC SURVEY (OCE-8026443)*; 18 MONTHS $66,673

WYOMING

UNIVERSITY OF WYOMING

STEINER, MAUREEN, AND SHIVE, PETER N; *CHARACTERIZATION OF NATURAL FE-TI SPINELS IN OCEANIC BASALTS (OCE-8018374)*; 24 MONTHS $93,580

ASTRONOMY

ARIZONA

ARIZONA STATE UNIVERSITY

STARRFIELD, SUMNER; *THEORETICAL AND OBSERVATIONAL STUDIES OF THE NOVA OUTBURST AND RELATED OBJECTS (AST-7921073 A01)*; 12 MONTHS $53,300

LOWELL OBSERVATORY

LUTZ, BARRY L; *INTERSTELLAR MEDIUM STUDIES (AST-7830131 A02)*; 24 MONTHS $56,500

WHITE, NATHANIEL M; *PHOTOELECTRIC OBSERVATIONS OF LUNAR OCCULTATIONS (AST-7916150 A02)*; 6 MONTHS $10,500

UNIVERSITY OF ARIZONA

STOCKMAN, H S, AND ANGEL, J R P; *STUDIES OF POLARIZATION IN ASTRONOMICAL OBJECTS (AST-7822714 A02)*; 12 MONTHS $80,500

CRAINE, ERIC R; *NEAR INFRARED PHOTOGRAPHIC SKY SURVEY (AST-7918164 A01)*; 12 MONTHS $93,000

AARONSON, MARC A; *OBSERVATIONAL STUDIES OF EXTRAGALACTIC OBJECTS (AST-7921663 A01)*; $6,400

GEHRELS, TOM, AND COYNE, GEORGE V; *ASTRONOMICAL POLARIMETRY (AST-7923593 A01*)*; 12 MONTHS $90,400

THOMPSON, RODGER I; *STEWARD OBSERVATORY DATA PROCESSING FACILITIES (AST-7923782 A01)*; 12 MONTHS $66,000

STOCKMAN, H S; *CCD CAMERA DEVELOPMENT FOR ASTRONOMICAL INSTRUMENTATION (AST-7923954 A01)*; 12 MONTHS $91,700

LOW, FRANK J, AND BECKERS, JACQUES M; *EVALUATION AND OPTIMIZATION OF THE MULTIPLE MIRROR TELESCOPE (AST-7925421 A01)*; 12 MONTHS $190,300

STRITTMATTER, P A; *ASTRONOMICAL RESEARCH AT STEWARD OBSERVATORY, KITT PEAK (AST-8002098 A01)*; 12 MONTHS $85,500

WILKENING, LAUREL L; *INTERNATIONAL COLLOQUIUM AND BOOK ON CURRENT COMETARY (AST-8010829)*; 12 MONTHS $8,300

RIEKE, GEORGE H, AND LEBOFSKY, MARCIA J; *STUDIES OF EXTRAGALACTIC INFRARED SOURCES (AST-8020603)*; 12 MONTHS $141,400

LIEBERT, JAMES W, AND GREEN, RICHARD; *STUDIES OF WHITE DWARF STARS AND PRE-WHITE DWARF STAR EVOLUTION (AST-8024324)*; 12 MONTHS $73,200

WILLIAMS, ROBERT E; *EMISSION LINE ANALYSIS OF CATACLYSMIC VARIABLES AND NOVA SHELLS (AST-8025628)*; 24 MONTHS $61,500

MCGRAW, J T; *A DEEP OPTICAL SURVEY FOR GALACTIC AND EXTRAGALACTIC VARIABLES (AST-8100254)*; 12 MONTHS $118,000

TOMASKO, M G; *MODELING OF PLANETARY ATMOSPHERES (AST-8104995)*; 12 MONTHS $24,600

LOW, FRANK J; *INFRARED SPATIAL INTERFEROMETRY: A 'PHASED-PHOTOMETER' FOR THE MMT (AST-8108431)*; 4 MONTHS $36,600

HILL, HENRY A; *SOLAR SEISMOLOGY (AST-8110533*)*; 24 MONTHS $170,000

BECKERS, JACQUES M, AND HEGE, E K; *EXPERIMENTS IN DIFFERENTIAL SPECKLE INTERFEROMETRY (AST-8113212)*; 12 MONTHS $77,000

ARKANSAS

UNIVERSITY OF ARKANSAS FAYETTEVILLE

LACY, CLAUD H; *AN OBSERVATIONAL STUDY OF BINARY STAR EVOLUTION: A JOINT PROJECT BETWEEN THE UNIV. OF TEXAS AT AUSTIN AND THE UNIVERSITY OF ARKANSAS AT FAYETTEVILLE (AST-8020769)*; 24 MONTHS $29,900

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

MUHLEMAN, DUANE O; *PLANETARY INVESTIGATIONS AT THE OWENS VALLEY RADIO OBSERVATORY (AST-7911806 A02*)*; 12 MONTHS $50,100

COHEN, MARSHALL H, AND READHEAD, ANTHONY C; *EXTRAGALACTIC RESEARCH AT THE OWENS VALLEY RADIO OBSERVATORY (AST-7913249 A02)*; 12 MONTHS $598,400

ZIRIN, HAROLD; *SOLAR RESEARCH AT THE OWENS VALLEY RADIO OBSERVATORY (AST-7916149 A02)*; 12 MONTHS $74,000

THORNE, KIP S; *RELATIVISTIC ASTROPHYSICS (AST-7922012 A01*)*; 12 MONTHS $185,400

SARGENT, WALLACE L W, AND LO, KWOK-YUNG; *TWENTY-ONE CENTIMETERS HI STUDIES OF GALAXIES AND THEIR ENVIRONMENTS IN NEARBY GROUPS (AST-8002101)*; 12 MONTHS $74,300

PHILLIPS, THOMAS G; *MILLIMETER AND SUBMILLIMETER WAVELENGTH SPECTROSCOPY OF INTERSTELLAR GAS (AST-8007645 A01*)*; 12 MONTHS $243,200

LEIGHTON, ROBERT B; *MILLIMETER-WAVE ASTRONOMY AT OWENS VALLEY RADIO OBSERVATORY (AST-8016863)*; 12 MONTHS $830,100

LEIGHTON, ROBERT B; *MILLIMETER-WAVE ASTRONOMY AT OWENS VALLEY RADIO OBSERVATORY (AST-8016863 A01)*; $10,000

NEUGEBAUER, GERRY, AND SOIFER, BARUCH T; *OBSERVATIONAL PROGRAM IN GROUND-BASED INFRARED ASTRONOMY (AST-8017335)*; 12 MONTHS $168,500

BLANDFORD, ROGER D; *THEORETICAL ASTROPHYSICS (AST-8017752)*; 12 MONTHS $62,600

ZIRIN, HAROLD; *A FREQUENCY-AGILE INTERFEROMETER FOR MICROWAVE SPECTROSCOPY OF SOLAR FLARES AND ACTIVE REGIONS (AST-8018200)*; 12 MONTHS $42,500

GOLDREICH, PETER; *THEORETICAL ASTROPHYSICS RESEARCH (AST-8020005*)*; 12 MONTHS $80,500

SARGENT, WALLACE L W; *SUPERNOVAE AND EXTRAGALACTIC RESEARCH (AST-8022279)*; 12 MONTHS $94,400

OKE, J B, COHEN, JUDITH G, READHEAD, ANTHONY C, LO, KWOK-YUNG, AND SARGENT, WALLACE W; *AN IMAGE PROCESSING COMPUTER FOR PALOMAR OBSERVATORY, BIG BEAR SOLAR OBSERVATORY & OWENS VALLEY RADIO OBSERVATORY (AST-8022800*)*; 24 MONTHS $340,000

READHEAD, ANTHONY C; *A 1.3 CM MASER RECEIVER FOR THE OWENS VALLEY RADIO OBSERVATORY (AST-8024119)*; 12 MONTHS $87,300

WHALING, WARD; *MEASUREMENT OF ATOMIC TRANSITION PROBABILITIES (AST-8100243)*; 24 MONTHS $59,500

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

LAWRENCE, JOHN K, CHAPMAN, GARY A, AND MARTIN, SARA F; *A COMPARATIVE STUDY OF SUNSPOT MODELS THROUGH MAGNETIC FEATURE OBSERVATIONS (AST-8019777)*; 12 MONTHS $24,100

GENERAL ATOMIC COMPANY INC

ROUSE, CARL A; *A STUDY OF SOLAR MODELS THAT SATISFY THE NECESSARY CONDITIONS FOR A UNIQUE SOLUTION TO THE STELLAR STRUCTURE EQUATIONS (AST-8019533)*; 24 MONTHS $6,000

SAN DIEGO STATE UNIVERSITY

NELSON, BURT; *RELOCATION OF UNIVERSITY OF ILLINOIS ONE-METER TELESCOPE FROM PRAIRIE OBSERVATORY TO MOUNT LAGUNA OBSERVATORY (AST-8026057)*; 18 MONTHS $65,000

UNIVERSITY OF CALIFORNIA, BERKELEY

WELCH, WILLIAM J; *RADIO ASTRONOMICAL STUDIES (AST-7821037 A02)*; 12 MONTHS $719,000

SHU, FRANK H; *STELLAR ASTROPHYSICS (AST-7827594 A02)*; 5 MONTHS $3,200

PHILLIPS, JOHN G, AND DAVIS, SUMNER P; *ANALYSIS OF MOLECULAR SPECTRA (AST-7921321 A01)*; 12 MONTHS $75,200

MCKEE, C F, ARONS, JONATHAN, AND KNOBLOCH, EDGAR; *THEORETICAL ASTROPHYSICS (AST-7923243 A01)*; 12 MONTHS $116,000

BOWYER, C STUART; *OPTICAL OBSERVATIONS OF CELESTIAL X-RAY SOURCES (AST-8005874 A01)*; 12 MONTHS $36,200

SMOOT, GEORGE F; *SPECTRUM OF THE COSMIC MICROWAVE BACKGROUND RADIATION (PHY-8015694*)*; 12 MONTHS $33,900

HEILES, CARL E; *STUDIES OF THE INTERSTELLAR GAS AND MAGNETIC FIELD (AST-8017060)*; 12 MONTHS $145,700

WELCH, WILLIAM J, KING, IVAN R, HEILES, CARL E, MCKEE, C F, AND KUHI, LEONARD V; *A COMPUTER AND PICTURE PROCESSOR FOR ASTRONOMICAL RESEARCH AT THE UNIVERSITY OF CALIFORNIA, BERKELEY (AST-8019955*)*; 12 MONTHS $261,000

KING, IVAN R; *STRUCTURE OF STELLAR SYSTEMS (AST-8020606)*; 24 MONTHS $83,700

KUHI, LEONARD V; *OBSERVATIONAL AND THEORETICAL STUDIES OF PRE-MAIN SEQUENCE EVOLUTION (AST-8106094)*; 12 MONTHS $62,900

UNIVERSITY OF CALIFORNIA, LOS ANGELES

JURA, MICHAEL A; *THEORETICAL STUDIES OF THE INTERSTELLAR MEDIUM (AST-7822676 A01)*; 12 MONTHS $13,300

PLAVEC, MIROSLAV M, AND POPPER, DANIEL M; *INVESTIGATIONS OF CLOSE BINARY STARS (AST-7925012 A01)*; 12 MONTHS $86,000

ALLER, LAWRENCE H; *THE COMPOSITION OF GASEOUS NEBULAE (AST-8019456)*; 12 MONTHS $58,900

ULRICH, ROGER K; *RESEARCH INTO THE THEORY OF STELLAR STRUCTURE AND EVOLUTION (AST-8019745*)*; 12 MONTHS $66,100

UNIVERSITY OF CALIFORNIA, SAN DIEGO

WILLNER, STEVEN P, BURBIDGE, E MARGARE, AND SMITH, HARDING E; *OBSERVATIONAL STUDIES IN GALACTIC AND EXTRAGALACTIC ASTROPHYSICS (AST-7916885 A01)*; $8,400

BURBIDGE, E MARGARE, AND SMITH, HARDING E; *EXTERNAL GALAXIES AND QUASI-STELLAR OBJECTS (AST-7922032 A01)*; 12 MONTHS $160,800

BURBRIDGE, E MARGARE, AND SMITH, HARDING E; *EXTERNAL GALAXIES AND QUASI-STELLAR OBJECTS (AST-7922032 A02*)*; $8,000

RICKETT, BARNEY J; *PULSAR RADIO EMISSION AND ITS PROPAGATION THROUGH THE INTERSTELLAR MEDIUM . (AST-8021963)*; 24 MONTHS $67,600

MENDIS, D ASOKA; *A THEORETICAL INVESTIGATION OF THE COMPOSITION AND STRUCTURE OF COMETS (AST-8108706)*; 12 MONTHS $31,100

UNIVERSITY OF CALIFORNIA, SANTA CRUZ-LICK OBSERVATORY

OSTERBROCK, DONALD E; *STUDIES OF IONIZED GAS IN GALAXIES, QUASARS, AND NEBULAE (AST-7919227 A01)*; 12 MONTHS $64,800

ROBINSON, LLOYD B, OSTERBROCK, DONALD E, MILLER, JOSEPH S, AND WOOSLEY, STANFORD E; *A COMPUTER FOR DATA ANALYSIS AND THEORETICAL CALCULATIONS AT LICK OBSERVATORY (AST-8017054)*; 12 MONTHS $254,000

WALKER, MERLE F; *STUDIES IN ASTRONOMICAL SPECTROSCOPY AND PHOTOMETRY (AST-8018187)*; 24 MONTHS $56,500

MILLER, JOSEPH S; *STUDIES OF QUASI-STELLAR OBJECTS AND RELATED ACTIVE SYSTEMS (AST-8019322)*; 36 MONTHS $102,000

KRAFT, ROBERT P; *STUDIES OF METAL-POOR STELLAR POPULATIONS IN THE GALACTIC HALO (AST-8019431)*; 24 MONTHS $35,100

FAULKNER, JOHN, KRAFT, ROBERT P, AND LIN, DOUGLAS N; *SUMMER WORKSHOP IN ASTRONOMY AND ASTROPHYSICS AT UCSC (CATACLYSMIC VARIABLES AND RELATED SYSTEMS) (AST-8106059)*; 12 MONTHS $5,300

WOOSLEY, STANFORD E; *THEORETICAL HIGH ENERGY ASTROPHYSICS (AST-8108509)*; 12 MONTHS $66,400

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

WHITFORD, ALBERT E; *CHARACTERISTICS OF GIANT STARS IN THE NUCLEAR BULGE OF THE GALAXY (AST-8004467 A01)*; 12 MONTHS $19,900

MATHEWS, WILLIAM G, AND BLUMENTHAL, GEORGE R; *GAS IN GALAXIES - ASTROPHYSICAL GAS DYNAMICS (AST-8008246)*; 12 MONTHS $40,000

KRAFT, ROBERT P; *STUDIES OF METAL-POOR STELLAR POPULATIONS IN THE GALACTIC HALO (AST-8019431 A01)*; 5 MONTHS $8,500

BODENHEIMER, PETER H, AND LIN, DOUGLAS N; *THEORETICAL COSMOGONY (AST-8100163)*; 12 MONTHS $33,800

COLORADO

UNIVERSITY OF COLORADO AT BOULDER

CONTI, PETER S; *SPECTROSCOPIC STUDIES OF O-TYPE AND WOLF-RAYET (W R) TYPE STARS (AST-7918388 A01)*; 12 MONTHS $71,000

COX, JOHN P, AND HANSEN, CARL J; *BASIC RESEARCH IN THE FIELD OF STELLAR STRUCTURE AND EVOLUTION (AST-7922254 A01)*; 12 MONTHS $74,500

HUMMER, DAVID G, AND CASTOR, JOHN I; *STUDIES OF STELLAR WINDS: DYNAMICS AND RADIATION TRANSFER (AST-8019874)*; 12 MONTHS $68,200

MCCRAY, RICHARD A, AND SHULL, J M; *THEORETICAL ASTROPHYSICS RESEARCH (AST-8019960)*; 24 MONTHS $152,000

TIMOTHY, J GETHYN, AND SNOW, THEODORE P; *A STUDY OF THE VARIABILITIES OF WINDS AND ABUNDANCES IN O AND B STARS (AST-8024321*)*; 12 MONTHS $60,000

CONNECTICUT

WESLEYAN UNIVERSITY

UPGREN, ARTHUR R; *MEASUREMENT OF STELLAR PARALLAXES AND PROPER MOTIONS (AST-8001675 A01)*; 12 MONTHS $44,000

YALE UNIVERSITY

VAN ALTENA, WILLIAM F, AND HOFFLEIT, DORRIT; *REVISION OF YALE CATALOGUE OF BRIGHT STARS AND THE GENERAL CATALOGUE OF TRIGONOMETRIC STELLAR PARALLAXES (AST-8010823 A01)*; 12 MONTHS $71,900

VAN ALTENA, WILLIAM F; *ASTROMETRIC RESEARCH AT YALE UNIVERSITY OBSERVATORY (AST-8012725 A01)*; 2 MONTHS $8,300

VAN ALTENA, WILLIAM F; *ASTROMETRIC RESEARCH AT YALE UNIVERSITY OBSERVATORY (AST-8012725 A02)*; 12 MONTHS $120,000

OEMLER, AUGUSTUS A; *STUDIES OF GALAXIES AND GALACTIC EVOLUTION (AST-8012915)*; 12 MONTHS $22,700

ZINN, ROBERT J; *STUDIES OF THE EVOLUTION AND COMPOSITIONS OF GLOBULAR CLUSTER STARS (AST-8018174)*; 24 MONTHS $58,000

TINSLEY, BEATRICE M, LARSON, RICHARD B, AND OEMLER, AUGUSTUS A; *GALACTIC EVOLUTION AND RELATED STUDIES (AST-8023351)*; 12 MONTHS $78,500

DEMARQUE, PIERRE; *RESEARCH IN STELLAR EVOLUTION (AST-8023745)*; 12 MONTHS $76,500

DISTRICT OF COLUMBIA

CARNEGIE INSTITUTION OF WASHINGTON

VAUGHAN, ARTHUR H, AND PRESTON, GEORGE W; *OBSERVATIONAL STUDIES OF VARIABLE CHROMOSPHERIC ACTIVITY IN SOLAR-LIKE STARS (AST-7921070 A01)*; 12 MONTHS $46,600

HOWARD, ROBERT; *RESEARCH ON SOLAR ACTIVITY DURING THE SOLAR MAXIMUM YEAR (AST-8001654 A01)*; 12 MONTHS $40,000

SANDAGE, ALLAN R; *THE MOTIONS OF OLD SUBDWARFS STARS IN THE GALACTIC DISK AND HALO (AST-8015797)*; 12 MONTHS $54,900

HOWARD, ROBERT; *SOLAR MAGNETIC AND VELOCITY FIELDS (AST-8020445*)*; 12 MONTHS $70,300

NATIONAL ACADEMY OF SCIENCES

GREGORY, BRUCE N; *A STUDY OF THE NEEDS OF ASTRONOMY AND ASTROPHYSICS (29T-7828089 A04*)*; $10,000

DOW, RICHARD Y; *SUPPORT OF THE XXTH GENERAL ASSEMBLY OF THE INTERNATIONAL UNION OF RADIO SCIENCE (08T-8020514*)*; 18 MONTHS $4,500

DOW, RICHARD Y; *TRAVEL SUPPORT OF U.S. PARTICIPATION IN THE XX GENERAL ASSEMBLY OF URSI (AST-8107919*)*; 12 MONTHS $10,000

DOW, RICHARD Y; *SUPPORT OF THE COMMITTEE ON RADIO FREQUENCIES (19T-8108951)*; 12 MONTHS $27,050

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

BRUNK, WILLIAM E; *NSF PORTION OF VISITOR SUPPORT COSTS FOR THE INFRARED TELESCOPE FACILITIES (AST-8112100*)*; 12 MONTHS $40,000

FLORIDA

FLORIDA ATLANTIC UNIVERSITY

BRUENN, STEPHEN W; *COLLAPSE AND EVOLUTION OF THE CORES OF MASSIVE STARS (AST-8111709)*; 24 MONTHS $33,100

UNIVERSITY OF FLORIDA

SMITH, ALEX G; *MEASUREMENT AND ANALYSIS OF VARIABLE PLANETARY AND EXTRAGALACTIC EMISSIONS AT RADIO AND OPTICAL FREQUENCIES (AST-8000246 A01*)*; 12 MONTHS $144,400

HAWAII

UNIVERSITY OF HAWAII-MANOA

LANDMAN, DONALD A; *OBSERVATIONAL STUDIES OF THE SPECTROPHOTOMETRY OF QUIESCENT SOLAR PROMINENCES (AST-7819006 A01)*; 12 MONTHS $28,400

MCCORD, THOMAS B; *A TWO-DIMENSIONAL LOW LIGHT LEVEL DETECTOR SYSTEM FOR MAUNA KEA OBSERVATORY (AST-7924610)*; 12 MONTHS $83,000

TULLY, BRENT; *STRUCTURE IN THE UNIVERSE: RADIO AND OPTICAL OBSERVATIONS OF NEARBY GALAXIES (AST-7926040 A01)*; 12 MONTHS $24,600

JEFFERIES, JOHN T; *AN INTERACTIVE DATA PROCESSING SYSTEM FOR THE INSTITUTE FOR ASTRONOMY (AST-7926401 A01)*; 12 MONTHS $70,000

LANDMAN, DONALD A; *PROTON EXCITATION OF CORONAL AND TRANSITION REGION IONS (AST-8000695 A01*)*; 12 MONTHS $15,100

WOLFF, SIDNEY C; *PULSE-COUNTING ARRAY DETECTORS FOR SPECTROSCOPY (AST-8002083 A01)*; 12 MONTHS $48,600

STOCKTON, ALAN N; *THE ENVIRONMENTS OF QUASI-STELLAR OBJECTS (AST-8022203)*; 12 MONTHS $55,700

WYNN-WILLIAMS, C G, AND BECKLIN, ERIC; *OBSERVATIONAL PROGRAM IN GROUND-BASED INFRARED ASTRONOMY (AST-8022218)*; 24 MONTHS $76,600

ILLINOIS

UNIVERSITY OF CHICAGO

SCHRAMM, DAVID N; *NUCLEAR ASTROPHYSICS AND THE ORIGIN OF THE ELEMENTS (AST-7820402 A02)*; 12 MONTHS $101,200

KRON, RICHARD G; *OBSERVATIONS OF DISTANT STELLAR SYSTEMS (AST-7920994 A01)*; 12 MONTHS $36,300

CUDWORTH, KYLE M; *YERKES OBSERVATORY ASTROMETRIC PROGRAM (AST-8007275 A01)*; 12 MONTHS $57,000

MORGAN, WILLIAM W; *MORPHOLOGICAL INVESTIGATIONS OF STELLAR SPECTRA AND CLUSTERS OF GALAXIES (AST-8007988)*; 24 MONTHS $71,200

ARNETT, W D; *THEORETICAL ASTROPHYSICS AND NUCLEAR ASTROPHYSICS (AST-8022876)*; 12 MONTHS $94,500

VANDERVOORT, PETER O; *THEORETICAL INVESTIGATIONS IN STELLAR DYNAMICS (AST-8023748*)*; 24 MONTHS $86,600

UNIVERSITY OF ILLINOIS AT URBANA

IBEN, ICKO; *STUDIES IN STELLAR STRUCTURE AND EVOLUTION (AST-7820124 A02)*; 12 MONTHS $104,300

SNYDER, LEWIS E; *RADIO OBSERVATIONS OF INTERSTELLAR CLOUDS, CIRCUMSTELLAR SHELLS, AND COMETS (AST-7907830 A02)*; 13 MONTHS $80,000

MOUSCHOVIAS, TELEMACHO C; *THEORETICAL STUDIES OF INTERSTELLAR GAS DYNAMICS AND STAR FORMATION IN THE PRESENCE OF MAGNETIC FIELDS (AST-8000667 A01*)*; 12 MONTHS $35,000

TRURAN, JAMES W; *THEORETICAL RESEARCH IN NUCLEAR ASTROPHYSICS (AST-8018198)*; 12 MONTHS $88,100

WEBBINK, RONALD F; *THEORETICAL STUDIES OF THE EVOLUTION OF CLOSE BINARY SYSTEMS AND GLOBULAR STAR CLUSTERS (AST-8018859*)*; 36 MONTHS $84,700

WATSON, WILLIAM D; *THEORY OF DIFFUSE MATTER IN ASTROPHYSICS (AST-8023230)*; 12 MONTHS $79,600

KALER, JAMES B; *THE COMPOSITIONS AND EVOLUTION OF PLANETARY NEBULAE (AST-8023233)*; 24 MONTHS $64,600

OLSON, EDWARD C; *AN OBSERVATIONAL STUDY OF EVOLUTION IN CLOSE BINARY SYSTEMS (AST-8024238)*; 24 MONTHS $59,700

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

JOHNSON, HOLLIS R; *ATMOSPHERES OF COOL STARS (AST-7913149 A01)*; 12 MONTHS $63,800

HONEYCUTT, R K; *THE STRUCTURE OF ACCRETION DISKS IN ALGOL-TYPE BINARIES (AST-8108712)*; 4 MONTHS $7,200

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

BEAVERS, WILLET I; *LUNAR OCCULTATION STUDIES (AST-7912691 A01)*; 12 MONTHS $27,700

BEAVERS, WILLET I; *SMALL COLLEGE FACULTY OPPORTUNITY AWARD (AST-7912691 A02)*; $6,200

UNIVERSITY OF IOWA

MUTEL, ROBERT L; *VERY LONG BASELINE INTERFEROMETRY AT NORTH LIBERTY RADIO OBSERVATORY (AST-7910128 A01)*; 12 MONTHS $58,000

KENTUCKY

UNIVERSITY OF KENTUCKY

ELITZUR, MOSHE; *THEORETICAL ASTROPHYSICS RESEARCH ON STELLAR MASERS (AST-8023711)*; 12 MONTHS $13,200

FERLAND, G J; *COMPUTER MODELING OF GASEOUS NEBULAE (AST-8025122*)*; 24 MONTHS $20,700

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

DRILLING, JOHN S; *SPECTROSCOPIC AND PHOTOMETRIC STUDIES OF OB STARS (AST-8018766)*; 24 MONTHS $23,300

BOND, HOWARD E; *STUDIES OF POPULATION II STARS AND SUPERGIANTS (AST-8023232)*; 24 MONTHS $98,400

CHANMUGAM, GANESAR; *THEORETICAL STUDIES OF MAGNETIC DEGENERATE STARS (AST-8025250)*; 24 MONTHS $21,500

MARYLAND

JOHNS HOPKINS UNIVERSITY

HENRY, RICHARD C, DAVIDSEN, ARTHUR F, JONES, FRANK C, AND RAMATY, REUVEN; *TEXAS SYMPOSIUM ON RELATIVISTIC ASTROPHYSICS (AST-8019568*)*; 6 MONTHS $6,700

UNIVERSITY OF MARYLAND, COLLEGE PARK

A'HEARN, MICHAEL F; *STANDARDIZED FILTERS FOR COMETARY PHOTOMETRY (AST-8017319)*; 12 MONTHS $26,000

HARRINGTON, J P; *ANALYSIS OF COOL STARS USING SYNTHETIC SPECTROSCOPY AND PHOTOMETRY (AST-8019570)*; 12 MONTHS $81,800

KERR, FRANK J; *INVESTIGATIONS OF GALACTIC STRUCTURE (AST-8021283)*; 12 MONTHS $87,000

ZUCKERMAN, BENJAMIN M; *INTERSTELLAR MOLECULES AND THE EVOLUTION OF STARS (AST-8023355)*; 12 MONTHS $45,600

ERICKSON, WILLIAM C, AND KUNDU, MUKUL R; *OPERATION OF CLARK LAKE RADIO TELESCOPE (AST-8106501)*; 12 MONTHS $380,300

MASSACHUSETTS

ATMOSPHERIC AND ENVIRONMENTAL RESEARCH INC

FOUKAL, PETER V; *A STUDY OF THE DYNAMICS OF MAGNETIC FIELDS IN THE SOLAR CONVECTION ZONE (AST-8001498 A01)*; $4,363

FOUKAL, PETER V; *A STUDY OF THE DYNAMICS OF MAGNETIC FIELDS IN THE SOLAR CONVECTION ZONE (AST-8001498 A02)*; 12 MONTHS $68,500

BOSTON UNIVERSITY

BRECHER, KENNETH; *THEORETICAL ASTROPHYSICS AND COSMOLOGY (AST-8020756)*; 12 MONTHS $25,000

JANES, KENNETH A; *COLOR-MAGNITUDE DIAGRAMS OF STAR CLUSTERS AND ABUNDANCES OF CEPHEID VARIABLE STARS (AST-8024069)*; 24 MONTHS $62,400

HARVARD UNIVERSITY

BALL, JOHN A; *VERY LONG BASELINE INTERFEROMETRY AT THE HARVARD RADIO ASTRONOMY STATION (AST-8012712)*; 12 MONTHS $97,900

HARVARD UNIVERSITY-OBSERVATORY

LILLER, MARTHA H, AND DAVIS, MARC; *SOUTHERN HEMISPHERE SKY PATROL (AST-7820134 A02)*; 12 MONTHS $17,900

CAMERON, A G W; *THEORETICAL STUDIES IN NUCLEAR SYNTHESIS AND ASTROPHYSICS (AST-7921998 A01)*; 12 MONTHS $51,800

MARIA MITCHELL OBSERVATORY

BELSERENE, EMILIA P; *VARIABLE STARS (AST-8005162 A01)*; 36 MONTHS $21,300

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

JOSS, PAUL C; *A STUDY OF THERMONUCLEAR PROCESSES ON ACCRETING NEUTRON STARS (AST-7821993 A01)*; 24 MONTHS $69,200

STAELIN, DAVID H, AND SHAO, MICHAEL; *LONG BASELINE STELLAR INTERFEROMETER FOR ASTROMETRY, PHASE 2 (AST-7919553 A01)*; $16,450

BARRETT, ALAN H, AND MYERS, PHILIP C; *RADIO OBSERVATIONS OF INTERSTELLAR MOLECULES (AST-7925075 A01)*; 12 MONTHS $142,000

ELLIOT, JAMES L; *OCCULTATIONS OF PLANETS AND DOUBLE STARS (AST-8010699 A02)*; 12 MONTHS $54,200

SHAPIRO, IRWIN I, AND COUNSELMAN, CHARLES C; *VLBI ASTROMETRY (AST-8022229)*; 12 MONTHS $65,000

BURKE, BERNARD F; *GALACTIC AND EXTRAGALACTIC RADIO ASTRONOMY (AST-8022864)*; 12 MONTHS $265,000

NORTHEAST RADIO OBSERVATORY CORPORATION

EVANS, JOHN V; *RADIO ASTRONOMY OPERATIONS AND INSTRUMENTATION AT THE HAYSTACK OBSERVATORY (AST-7920168 A02)*; 12 MONTHS $962,000

UNIVERSITY OF MASSACHUSETTS, AMHERST

TAYLOR, JOSEPH H; *RADIO OBSERVATIONS OF PULSARS (AST-7919239 A01)*; 8 MONTHS $35,200

HUGUENIN, G RICHARD; *ASTRONOMY RESEARCH AT THE FIVE COLLEGE RADIO ASTRONOMY OBSERVATORY (AST-7919821 A01*)*; 12 MONTHS $860,000

HUGUENIN, G RICHARD; *ASTRONOMY RESEARCH AT THE FIVE COLLEGE RADIO ASTRONOMY OBSERVATORY (AST-7919821 A02)*; 12 MONTHS $7,100

DENT, WILLIAM A; *THE EVOLUTION OF NONTHERMAL RADIO SOURCES (AST-8019763)*; 24 MONTHS $44,900

MICHIGAN

UNIVERSITY OF MICHIGAN-ANN ARBOR

COWLEY, ANNE P; *SPECTROSCOPIC STUDIES OF STELLAR X-RAY SOURCES (AST-8019332)*; 24 MONTHS $117,700

HADDOCK, FRED T, AND ALLER, HUGH D; *RADIO ASTRONOMY (AST-8021250)*; 12 MONTHS $219,800

MACALPINE, GORDON M; *STUDIES OF QUASARS, EMISSION-LINE GALAXIES, AND THE CRAB NEBULA (AST-8023737)*; 12 MONTHS $17,000

KIRSHNER, ROBERT P; *STUDIES OF SUPERNOVAE AND SUPERNOVA REMNANTS (AST-8105050)*; 24 MONTHS $89,400

MINNESOTA

UNIVERSITY OF MINNESOTA

JONES, THOMAS W, AND RUDNICK, LAWRENCE; *RADIO STUDIES OF QSOS AND RELATED OBJECTS (AST-7900304 A01)*; 12 MONTHS $30,100

JONES, THOMAS W; *RADIO STUDIES OF QSO'S AND RELATED STUDIES (AST-7900304 A02*)*; $18,000

HUMPHREYS, ROBERTA M, AND LANDAU, ROBERT; *REDEVELOPMENT OF THE AUTOMATED PLATE SCANNER AT THE UNIVERSITY OF MINNESOTA (AST-7920382 A01)*; 12 MONTHS $229,600

VAN DER HULST, JAN M; *STUDIES OF THE RADIO CONTINUUM AND 21-CM LINE EMISSION OF SPIRAL AND IRREGULAR GALAXIES (AST-7922024 A01)*; 12 MONTHS $24,500

STEIN, WAYNE A, AND NEY, EDWARD P; *RESEARCH IN INFRARED ASTRONOMY (AST-8015907)*; 12 MONTHS $235,300

UNIVERSITY OF MINNESOTA AT SAINT PAUL

HUMPHREYS, ROBERTA M; *STUDIES OF LUMINOUS STARS IN NEARBY GALAXIES (AST-8017754)*; 22 MONTHS $78,100

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

PETERSON, CHARLES J; *OBSERVATIONAL STUDIES OF STELLAR SYSTEMS (AST-8007993)*; 24 MONTHS $36,700

WASHINGTON UNIVERSITY

SMITH, WILLIAM H; *LABORATORY STUDIES OF MOLECULES AND MOLECULAR IONS OF ASTROPHYSICAL INTEREST (AST-8019977)*; 12 MONTHS $102,600

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

SCHMIDT, E G; *AN OBSERVATIONAL STUDY OF BASIC CEPHEID PROPERTIES (AST-7717520 A03)*; 24 MONTHS $52,100

SIMON, NORMAN R; *RESONANCES AND MODAL SELECTION IN PULSATING STARS, AND THE INFLUENCE OF PULSATIONS ON STELLAR STRUCTURE (AST-8105064*)*; 24 MONTHS $59,700

NEW JERSEY

INDIVIDUAL AWARD

ROOD, HERBERT J; *THE DYNAMICS OF SYSTEMS OF GALAXIES (AST-8018076)*; 24 MONTHS $16,400

INSTITUTE FOR ADVANCED STUDY

ADLER, STEPHEN L, BAHCALL, JOHN N, AND DASHEN, ROGER F; *PURCHASE AND OPERATION OF A COMPUTER FOR RESEARCH IN ASTROPHYSICS AND HIGH ENERGY PHYSICS (PHY-8009817*)*; 12 MONTHS $26,590

PRINCETON UNIVERSITY

SCHWARZSCHILD, MARTIN; *STUDIES ON THE DYNAMICS OF ELLIPTICAL GALAXIES (AST-7823796 A02)*; 12 MONTHS $40,200

BAHCALL, NETA A; *RESEARCH IN GALACTIC AND EXTRAGALACTIC ASTROPHYSICS (AST-7920844 A01)*; 12 MONTHS $41,000

KNAPP, GILLIAN R; *RADIO AND MILLIMETER-WAVE INVESTIGATIONS OF THE DYNAMICS OF THE GALAXY AND THE INTERSTELLAR MEDIUM (AST-8009253)*; 24 MONTHS $66,800

GUNN, JAMES E; *STUDIES IN COSMOLOGY AND THE EVOLUTION AND DYNAMICS OF GALAXIES AND CLUSTERS (AST-8015346)*; 12 MONTHS $87,900

OSTRIKER, JEREMIAH P; *FORMATION OF RELATIVISTIC JETS IN THICK ACCRETION DISCS (AST-8022551)*; 12 MONTHS $10,100

OSTRIKER, JEREMIAH P; *HYDRODYNAMICAL PROCESSES IN HIGH ENERGY ASTROPHYSICS (AST-8022785)*; 12 MONTHS $80,000

TAYLOR, JOSEPH H; *RADIO OBSERVATIONS OF PULSARS (AST-8103190)*; 4 MONTHS $23,300

RUTGERS UNIVERSITY

CHENG, ANDREW F; *THEORETICAL STUDY OF POLAR CAP PULSAR MODELS (AST-8103053)*; 24 MONTHS $21,400

NEW MEXICO

NEW MEXICO STATE UNIVERSITY

BEEBE, RETA F; *A STUDY OF TIME-DEPENDENT PHENOMENA IN THE JOVIAN ATMOSPHERE (AST-8010836 A01)*; 12 MONTHS $38,600

UNIVERSITY OF NEW MEXICO

PRICE, RICHARD M; *INTERNATIONAL ASTRONOMICAL UNION SYMPOSIUM 97 ON EXTRAGALACTIC RADIO SOURCES; ALBUQUERQUE, NEW MEXICO; AUGUST 3-7, 1981 (AST-8111880*)*; 12 MONTHS $6,500

NEW YORK

COLUMBIA UNIVERSITY

THADDEUS, PATRICK, AND COHEN, RICHARD; *A SMALL MILLIMETER WAVE TELESCOPE TO SURVEY MOLECULAR CLOUDS IN THE SOUTHERN HEMISPHERE (AST-8024657)*; 12 MONTHS $284,400

SCHARLEMANN, ERNST T; *THEORETICAL STUDIES OF ACCRETION ON BLACK HOLES AND TIDES IN BINARY STELLAR SYSTEMS (AST-8105063)*; 12 MONTHS $18,300

CORNELL UNIVERSITY

GOLD, THOMAS; *THEORETICAL SOLAR SYSTEM STUDIES (AST-8024042)*; 12 MONTHS $87,600

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

SHAPIRO, STUART L; *THEORETICAL STUDIES IN ASTROPHYSICS (AST-7820708 A02)*; 12 MONTHS $193,100

DUDLEY OBSERVATORY

PHILIP, A G DAVIS; *CONFERENCE ON ASTROPHYSICAL PARAMETERS FOR GLOBULAR CLUSTERS (AST-8022440)*; 18 MONTHS $4,800

NEW YORK UNIVERSITY

GLASSGOLD, ALFRED E, HUGGINS, PATRICK J, AND SCHUCKING, ENGELBERT; *SYMPOSIUM ON THE ORION NEBULA TO HONOR HENRY DRAPER (AST-8106060)*; 12 MONTHS $4,500

RENSSELAER POLYTECHNIC INSTITUTE

RYDGREN, A ERIC; *CIRCUMSTELLAR DUST SHELLS ASSOCIATED WITH T TAURI STARS (AST-8018229)*; 12 MONTHS $18,500

UNIVERSITY OF ROCHESTER

VAN HORN, HUGH M; *STUDIES OF DEGENERATE STARS (AST-8111460)*; 12 MONTHS $69,700

OHIO

BOWLING GREEN STATE UNIVERSITY

GREGORY, STEPHEN A; *THREE REDSHIFT STUDIES OF GALAXY CLUSTERS (AST-8019637)*; 24 MONTHS $31,500

CASE WESTERN RESERVE UNIVERSITY

PESCH, PETER; *RELOCATION AND OPERATION OF THE BURRELL SCHMIDT-TYPE TELESCOPE OF THE WARNER AND SWASEY OBSERVATORY (AST-7720513 A03)*; 12 MONTHS $38,900

PESCH, PETER; *GALACTIC AND EXTRAGALACTIC RESEARCH WITH THE RELOCATED BURRELL SCHMIDT (AST-7921572 A01)*; 12 MONTHS $172,000

OHIO STATE UNIVERSITY

PETERSON, BRADLEY M, AND FOLTZ, CRAIG B; *SPECTROSCOPIC STUDIES OF ACTIVE GALAXIES AND QUASI-STELLAR OBJECTS (AST-8019025)*; 12 MONTHS $49,000

UNIVERSITY OF TOLEDO

DELSEMME, A H; *PHYSICAL NATURE OF COMETS (AST-7914789 A01)*; 12 MONTHS $44,100

OKLAHOMA

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

BRANCH, DAVID R; *SPECTRA OF SUPERNOVAE (AST-7808672 A01)*; 24 MONTHS $40,900

OREGON

UNIVERSITY OF OREGON - EUGENE

MOSELEY, JOHN T; *PHOTODISSOCIATION OF IONS OF ASTROPHYSICAL IMPORTANCE (AST-7918371 A01)*; 12 MONTHS $59,800

PENNSYLVANIA

HAVERFORD COLLEGE

PARTRIDGE, R B; *DETAILED INVESTIGATION OF THE COSMIC MICROWAVE BACKGROUND-IMPLICATIONS FOR COSMOLOGY (AST-8007370*)*; 12 MONTHS $27,300

PENNSYLVANIA STATE UNIVERSITY

WEEDMAN, DANIEL W; *OBSERVATIONS OF EMISSION-LINE GALAXIES AND QUASARS (AST-7901067 A02)*; 6 MONTHS $13,200

RAMSEY, LAWRENCE W; *DEVELOPMENT OF A FIBER COUPLED ASTRONOMICAL SPECTROGRAPH (AST-8025104)*; 12 MONTHS $23,000

SWARTHMORE COLLEGE

LIPPINCOTT, SARAH L; *ASTROMETRIC STUDY OF NEARBY STARS WITH THE SPROUL 61-CM REFRACTOR (AST-8017320)*; 12 MONTHS $69,600

HEINTZ, WULFF D; *OBSERVATIONS OF BINARY AND PROPER-MOTION STARS (AST-8108437)*; 24 MONTHS $32,300

UNIVERSITY OF PITTSBURGH

GATEWOOD, GEORGE D; *THE ALLEGHENY OBSERVATORY TRIGONOMETRIC PARALLAX PROGRAM (AST-8110507*)*; 4 MONTHS $37,800

RHODE ISLAND

AMERICAN MATHEMATICAL SOCIETY

LEVEQUE, WILLIAM J, AND LEBOVITZ, NORMAN R; *1981 SEMINAR ON FLUID-DYNAMICAL PROBLEMS IN ASTROPHYSICS AND GEOPHYSICS, CHICAGO, ILLINOIS, JUNE 29-JULY 11, 1981 (MCS-8024110*)*; 6 MONTHS $3,000

SOUTH CAROLINA

THE CITADEL

ADELMAN, SAUL J; *SPECTROPHOTOMETRIC STUDIES OF PECULIAR A STARS (AST-8106030)*; 12 MONTHS $10,700

TEXAS

RICE UNIVERSITY

DUFOUR, REGINALD J; *THE STRUCTURE AND CHEMICAL COMPOSITION OF GALACTIC AND EXTRAGALACTIC EMISSION NEBULAE (AST-8007450)*; 24 MONTHS $54,900

UNIV OF TEXAS AT AUSTIN-MCDONALD OBSERVATORY

SMITH, HARLAN J; *CONSTRUCTION AND INSTALLATION OF A REMOTELY CONTROLLED CASSEGRAIN SPECTROGRAPH SYSTEM FOR THE MCDONALD OBSERVATORY 2.7-M TELESCOPE (AST-8100160)*; 12 MONTHS $100,200

UNIV OF TEXAS AT AUSTIN

WILLS, DEREK, AND WILLS, BEVERLEY J; *SPECTROSCOPIC OBSERVATIONS OF QUASI-STELLAR OBJECTS (AST-7901182 A02)*; 12 MONTHS $75,000

DE VAUCOULEURS , G; *PHOTOMETRY, SPECTROSCOPY AND INTERFEROMETRY OF IRREGULAR GALAXIES (AST-7916335 A01)*; 12 MONTHS $80,400

DUNCOMBE, RAYNOR L; *A STUDY OF THE USE OF ASTEROID OBSERVATIONS TO IMPROVE THE FUNDAMENTAL REFERENCE STAR SYSTEM (AST-7918870 A01)*; 12 MONTHS $41,100

VANDEN BOUT, PAUL A; *MILLIMETER WAVELENGTH SPECTROSCOPY OF GALACTIC MOLECULAR CLOUDS (AST-7920966 A01)*; 12 MONTHS $325,700

LAMBERT, DAVID L; *STELLAR SPECTROSCOPY AND NUCLEOSYNTHESIS (AST-7922014 A01)*; 12 MONTHS $69,200

WRAY, JAMES D; *A COLOR ATLAS OF GALAXIES (AST-8002118)*; 24 MONTHS $52,100

SCALO, JOHN M; *RED GIANT STARS (AST-8019737)*; 12 MONTHS $26,400

EVANS, DAVID S; *AN OBSERVATIONAL STUDY OF BINARY STAR EVOLUTION: A JOINT PROJECT BETWEEN THE UNIVERSITY OF TEXAS AT AUSTIN AND THE UNIVERSITY OF ARKANSAS AT FAYETTEVILLE (AST-8020436)*; 24 MONTHS $17,800

SHIELDS, GREGORY A; *EXTRAGALACTIC CHEMICAL ABUNDANCES (AST-8020461)*; 24 MONTHS $35,900

BREGER, MICHEL; *HOT BLUE STARS IN THE GALACTIC CLUSTER NGC 7789 (AST-8023713)*; 12 MONTHS $17,600

SNEDEN, C; *ABUNDANCE STUDIES OF METAL-POOR AND PECULIAR RED GIANT STARS (AST-8100241)*; 24 MONTHS $54,300

DOUGLAS, JAMES N; *A CONTINUED PROGRAM OF EXTRAGALACTIC RADIO ASTRONOMY (AST-8101205*)*; 12 MONTHS $169,500

EVANS, DAVID S; *PHOTOELECTRIC OBSERVATIONS OF LUNAR OCCULATIONS AND COGNATE PHENOMENA (AST-8106063)*; 12 MONTHS $59,800

WHEELER, J CRAIG; *POST-DOCTORAL RESEARCH IN STELLAR EVOLUTION AND PULSATION (AST-8108485)*; 12 MONTHS $29,300

NATHER, R E, AND ROBINSON, EDWARD L; *RAPID OPTICAL VARIATIONS FROM COMPACT STARS (AST-8108691)*; 12 MONTHS $68,000

UTAH

BRIGHAM YOUNG UNIVERSITY

MCNAMARA, D H; *SPECTROGRAPHIC AND PHOTOMETRIC STUDIES OF SUPERGIANTS IN THE MAGELLANIC CLOUDS AND GALAXY (AST-8018941)*; 24 MONTHS $69,900

UNIVERSITY OF UTAH

LOH, EUGENE C, AND GROOM, DONALD E; *LEPTONIC PROCESSES AT PEP (PHY-8006504 A01*)*; 12 MONTHS $15,000

GROOM, DONALD E; *MEASUREMENT OF THE COSMIC RAY SIDEREAL ANISOTROPY ABOVE 1 TEV (AST-8010727)*; 12 MONTHS $30,400

VIRGINIA

UNIVERSITY OF VIRGINIA

ROBERTS, WILLIAM W; *NORMAL SPIRALS, BARRED SPIRALS, AND ACTIVE GALAXIES: LARGESCALE GAS DYNAMICS IN GALAXIES (AST-7909935 A02)*; 6 MONTHS $34,800

JOHNSON, ROBERT E; *EROSION OF CONDENSED GASES BY FAST IONS: PHYSICAL MECHANISM AND ASTROPHYSICAL IMPLICATIONS (AST-7912690 A01*)*; 12 MONTHS $13,900

FREDRICK, LAURENCE W, AND IANNA, PHILIP A; *PARALLAXES AND PROPER MOTIONS OF SELECTED STARS (AST-7921515 A01*)*; 12 MONTHS $84,300

CHEVALIER, ROGER A; *SUPERNOVAE, SUPERNOVA REMNANTS, AND ASTROPHYSICAL GAS DYNAMICS (AST-8019569)*; 24 MONTHS $77,800

ROOD, ROBERT T; *FURTHER STUDIES OF THE OLDEST STARS OF THE DISK, HALO AND EXTRAGALACTIC SYSTEMS (AST-8108418)*; 24 MONTHS $34,200

VIRGINIA POLYTECHNIC INSTITUTE

BRODERICK, JOHN J, O'DELL, STEPHEN L, AND DENNISON, BRIAN K; *LOW FREQUENCY VARIABILITY IN EXTRAGALACTIC RADIO SOURCES (AST-7925345 A01)*; 12 MONTHS $42,000

WASHINGTON

UNIVERSITY OF WASHINGTON

WALLERSTEIN, GEORGE; *THE CHEMICAL COMPOSITION OF LATE TYPE STARS (AST-7921005 A01)*; 12 MONTHS $50,300

BOYNTON, PAUL E; *THE EVOLUTION OF STRUCTURE IN THE UNIVERSE (INT-8018847*)*; 24 MONTHS $31,400

BOHM, KARL-HEIN; *PHYSICAL PROCESSES IN YOUNG OBJECTS AND WHITE DWARF STARS (AST-8021074)*; 24 MONTHS $63,300

HODGE, PAUL W; *STAR AND CLUSTER EVOLUTION IN THE MAGELLANIC CLOUDS (AST-8102952)*; 12 MONTHS $34,600

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

NORDSIECK, KENNETH H; *SPECTROPOLARIMETRIC STUDIES OF STELLAR ENVELOPES (AST-8016548)*; 24 MONTHS $55,200

ROESLER, FRED L; *HIGH-RESOLUTION SPECTROSCOPIC STUDIES IN AERONOMY (ATM-8021064*)*; 12 MONTHS $35,000

WYOMING

UNIVERSITY OF WYOMING

GEHRZ, ROBERT D, AND HACKWELL, JOHN A; *CONSTRUCTION OF IMPROVED INFRARED ARRAY SPECTROMETER SYSTEMS AT THE UNIVERSITY OF WYOMING (AST-7905131 A02)*; 12 MONTHS $130,000

HACKWELL, JOHN A, GRASDALEN, GARY L, AND GEHRZ, ROBERT D; *INFRARED OBSERVATIONS AT THE WYOMING INFRARED OBSERVATORY (AST-8021349*)*; 12 MONTHS $123,700

GRASDALEN, GARY L, GEHRZ, ROBERT D, AND HACKWELL, JOHN A; *INFRARED OBSERVATIONS AT THE WYOMING INFRARED OBSERVATORY (AST-8021349 A01)*; 2 MONTHS $8,900

NATIONAL RESEARCH CENTERS

ALASKA

UNIVERSITY OF ALASKA FAIRBANKS CAMPUS-GEOPHYSICAL INSTITUTE

OLSON, JOHN V; *A PROGRAM TO INVESTIGATE THE ULF PULSATION SPECTRUM AT HIGH LATITUDES AND IN THE POLAR CAP (ATM-8111465*)*; 12 MONTHS $104,727

ARIZONA

CERRO TOLOLO INTER-AMERICAN OBSERVATORY

TEEM, JOHN M; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE CERRO TOLOLO INTER-AMERICAN OBSERVATORY (CTIO) (AST-7827879 A10)*; $1,400,000

TEEM, JOHN M; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE CERRO TOLOLO INTER-AMERICAN OBSERVATORY (CTIO) (AST-7827879 A11)*; $2,222,500

TEEM, JOHN M; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE CERRO TOLOLO INTER-AMERICAN OBSERVATORY (CTIO) (AST-7827879 A13)*; $1,938,000

TEEM, JOHN M; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE CERRO TOLOLO INTER-AMERICAN OBSERVATORY (CTIO) (AST-7827879 A14)*; $165,000

TEEM, JOHN M; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE CERRO TOLOLO INTER-AMERICAN OBSERVATORY (CTIO) (AST-7827879 A15)*; $96,000

KITT PEAK NATIONAL OBSERVATORY

TEEM, JOHN M; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE KITT PEAK NATIONAL OBSERVATORY (KPNO) (AST-7827880 A32)*; $2,800,000

TEEM, JOHN M; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE KITT PEAK NATIONAL OBSERVATORY (KPNO) (AST-7827880 A34)*; $5,075,000

TEEM, JOHN M; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE KITT PEAK NATIONAL OBSERVATORY (KPNO) (AST-7827880 A38*)*; $2,848,392

TEEM, JOHN M; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE KITT PEAK NATIONAL OBSERVATORY (KPNO) (AST-7827880 A40)*; $185,000

TEEM, JOHN M; *CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE KITT PEAK NATIONAL OBSERVATORY (KPNO) (AST-7827880 A41)*; $182,000

TEEM, JOHN M; *INTERAGENCY FUND TRANSFER REQUEST FOR AN/AXQ-16V-1 CCD CAMERAS REQUIRED BY KITT PEAK NATIONAL OBSERVATORY (AST-8108035)*; $12,458

COLORADO

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

WHITE, ROBERT M; *OPERATION, MAINTENANCE, AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH AND NATIONAL SCIENTIFIC BALLOON FACILITY (ATM-7727757 A71*)*; $21,570,273

WHITE, ROBERT M; *OPERATION, MAINTENANCE, AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH AND THE NATIONAL SCIENTIFIC BALLOON FACILITY (ATM-7727757 A80*)*; $8,770,492

WHITE, ROBERT M; *OPERATION, MAINTENANCE AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH AND THE NATIONAL SCIENTIFIC BALLOON FACILITY (SSM-7727757 A85*)*; $1,049,000

WHITE, ROBERT M; *OPERATION, MAINTENANCE AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH AND THE NATIONAL SCIENTIFIC BALLOON FACILITY (ATM-7727757 A88)*; $131,000

MARYLAND

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

CLARK, RICHARD; *SUPPORT FOR ARGOS DATA COLLECTION AND LOCATION SYSTEM (64E-8103974*)*; 13 MONTHS $4,042

NEW MEXICO

SACRAMENTO PEAK OBSERVATORY

TEEM, JOHN M; *CONTRACT FOR THE OPERATION, MANAGEMENT, AND MAINTENANCE OF THE SACRAMENTO PEAK OBSERVATORY (SPO) (AST-7817292 A37)*; $500,000

TEEM, JOHN M; *CONTRACT FOR THE OPERATION, MANAGEMENT, AND MAINTENANCE OF THE SACRAMENTO PEAK OBSERVATORY (SPO) (AST-7817292 A43)*; $1,170,000

TEEM, JOHN M; *CONTRACT FOR THE OPERATION, MANAGEMENT, AND MAINTENANCE OF THE SACRAMENTO PEAK OBSERVATORY (SPO) (AST-7817292 A47)*; $101,017

TEEM, JOHN M; *CONTRACT FOR THE OPERATION, MANAGEMENT, AND MAINTENANCE OF THE SACRAMENTO PEAK OBSERVATORY (SPO) (AST-7817292 A50)*; $86,000

PUERTO RICO

NATIONAL ASTRONOMY & IONOSPHERE CTR AT ARECIBO

RHODES, FRANK H T; *CONTRACT FOR THE OPERATION, MANAGEMENT, AND MAINTENANCE OF THE NATIONAL ASTRONOMY AND IONOSPHERE CENTER (NAIC) (AST-8025819)*; $1,500,000

RHODES, FRANK H T; *CONTRACT FOR THE OPERATION, MANAGEMENT, AND MAINTENANCE OF THE NATIONAL ASTRONOMY AND IONOSPHERE CENTER (NAIC) (AST-8025819 A03)*; $3,714,000

RHODES, FRANK H T; *CONTRACT FOR THE OPERATION, MANAGEMENT, AND MAINTENANCE OF THE NATIONAL ASTRONOMY AND IONOSPHERE CENTER (NAIC) (AST-8025819 A07)*; $193,000

WEST VIRGINIA

NATIONAL RADIO ASTRONOMY OBSERVATORY

TAPE, GERALD F; *CONTRACT FOR THE OPERATION, MANAGEMENT, AND MAINTENANCE OF THE NATIONAL RADIO ASTRONOMY OBSERVATORY (NRAO) (AST-7908925 A22*)*; $12,600,000

HUGHES, ROBERT E; *CONTRACT FOR THE OPERATION, MANAGEMENT, AND MAINTENANCE OF THE NATIONAL RADIO ASTRONOMY OBSERVATORY (NRAO) (AST-7908925 A24)*; $1,658,000

HUGHES, ROBERT E; *CONTRACT FOR THE OPERATION, MANAGEMENT, AND MAINTENANCE OF THE NATIONAL RADIO ASTRONOMY OBSERVATORY (NRAO) (AST-7908925 A35)*; $50,000

HUGHES, ROBERT E; *CONTRACT FOR THE OPERATION, MANAGEMENT, AND MAINTENANCE OF THE NATIONAL RADIO ASTRONOMY OBSERVATORY (NRAO) (AST-7908925 A37)*; $482,000

ARCTIC RESEARCH PROGRAM

ALASKA

UNIVERSITY OF ALASKA FAIRBANKS CAMPUS-ARCTIC RESEARCH LABORATORY

LAURSEN, GARY A; *INTERNATIONAL SYMPOSIUM ON ARCTIC MYCOLOGY - I (DPP-8008154 A01)*; $4,500

UNIVERSITY OF ALASKA FAIRBANKS CAMPUS-GEOPHYSICAL INSTITUTE

BENSON, CARL S; *GLACIER FACIES AND STRUCTURE OF THE NEAR SURFACE LAYERS OF THE GREENLAND ICE SHEET (DPP-7996435 A01)*; 12 MONTHS $81,266

UNIVERSITY OF ALASKA FAIRBANKS CAMPUS-INSTITUTE OF MARINE SCIENCE

GOERING, JOHN J; *PROCESSES AND RESOURCES OF THE GERING SEA SHELF (PROBES) PHASE II (DPP-7633340 A07*)*; 12 MONTHS $1,562,968

NIEBAUER, HENRY J, AND ALEXANDER, VERA D; *DYNAMICS OF AN ICE EDGE ZONE (OCE-8024058*)*; 12 MONTHS $44,316

UNIVERSITY OF ALASKA FAIRBANKS CAMPUS

HARRISON, WILLIAM D, AND OSTERKAMP, THOMAS E; *HEAT AND MASS TRANSPORT IN SUBSEA PERMAFROST (DPP-7728451 A03)*; 12 MONTHS $90,875

OSTERKAMP, THOMAS E; *AN INVESTIGATION OF GEOPHYSICAL METHODS FOR DETECTING PERMAFROST, MASSIVE GROUND ICE AND ICE-RICH SOILS (DPP-7927841 A02)*; 12 MONTHS $71,727

HARRISON, WILLIAM D; *MEASUREMENT OF BASAL SLIDING AND OBSERVATION OF BASAL CONDITIONS IN AN ALASKAN SURGE-TYPE GLACIER (DPP-7904190 A02)*; 6 MONTHS $19,887

SHAW, GLENN E; *RADIATIVE EFFECTS OF ARCTIC HAZE (DPP-7919816 A01)*; 12 MONTHS $75,000

FAY, FRANCIS H; *ENERGY COST AND CONTROL OF MOLTING IN BERING SEA SEALS (DPP-8006957 A01)*; 12 MONTHS $40,137

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

KAMB, BARCLAY; *MEASUREMENT OF BASAL SLIDING & OBSERVATION OF BASAL CONDITIONS IN AN ALASKAN SURGE-TYPE GLACIER (DPP-7908584 A03)*; 12 MONTHS $45,140

LOCKHEED MISSILES AND SPACE COMPANY INC-LOCKHEED PALO ALTO RESEARCH LABORATORY

MENDE, STEPHEN B; *AUTOMATIC GEOPHYSICAL OBSERVATORY IN ANTARCTICA (DPP-8105624*)*; 34 MONTHS $41,348

STANFORD UNIVERSITY

HELLIWELL, ROBERT A; *VERY LOW FREQUENCY WAVE INVESTIGATIONS OF THE MAGNETOSPHERE AT ROBERVAL, QUEBEC (DPP-8022540)*; 12 MONTHS $204,770

TETRA TECH INC

KOZO, THOMAS L; *MOUNTAIN BARRIER BAROCLINITY EFFECTS IN SURFACE WINDS ALONG THE ALASKAN ARCTIC COAST (DPP-8103158)*; 12 MONTHS $61,140

UNIVERSITY OF CALIFORNIA, IRVINE

HUNT, GEORGE L; *THE DISTRIBUTION, ABUNDANCE AND ROLE OF SEABIRDS IN THE SOUTHEASTERN BERING SEA ECOSYSTEM (DPP-7910386 A02)*; 12 MONTHS $61,543

COLORADO

UNIVERSITY OF COLORADO AT BOULDER

ANDREWS, JOHN T, WEBBER, PATRICK J, MODE, W N, AND SHORT, SUSAN K; *MODERN POLLEN RAIN, TRANSFER FUNCTIONS, AND HOLOCENE PALEOCLIMATE RECONSTRUCTIONS, NORTHERN ALASKA (DPP-7926238 A01)*; 12 MONTHS $32,245

MILLER, G H; *STRATIGRAPHY AND AMINO ACID GEOCHRONOLOGY OF THE GUBIK FORMATION, ARCTIC COASTAL PLAIN, ALASKA (DPP-8102967)*; 24 MONTHS $4,860

MARR, JOHN W; *DOCTORAL DISSERTATION RESEARCH: DYNAMICS OF TREELIMIT VEGETATION IN THE CENTRAL BROOKS RANGE OF ALASKA (DPP-8106837)*; 12 MONTHS $8,730

CONNECTICUT

UNIVERSITY OF CONNECTICUT

BLACK, ROBERT F; *AGE OF ICE WEDGES AND PERMAFROST IN NORTHERN ALASKA (DPP-8025243)*; 12 MONTHS $39,042

DENMARK

UNIVERSITY OF COPENHAGEN

DANSGAARD, WILLI; *DEEP ICE CORE DRILLING IN GREENLAND, THE GREENLAND ICE SHEET PROGRAM (GISP) (DPP-8004667 A01)*; 12 MONTHS $68,000

DISTRICT OF COLUMBIA

DEPARTMENT OF NAVY-NAVSEA SYSTEMS COMMAND

KELLY, THOMAS P; *TECHNICAL SUPPORT FOR POLAR RESEARCH PROGRAMS (DPP-7820114 A03)*; 12 MONTHS $75,000

NATIONAL ACADEMY OF SCIENCES

HART, PEMBROKE J; *STUDIES IN GEOPHYSICS (EAR-7902459 A09*)*; 12 MONTHS $7,250

HUSHEN, W TIMOTHY; *SUPPORT FOR THE POLAR RESEARCH BOARD (ISP-7915076 A04*)*; 12 MONTHS $10,480

HART, PEMBROKE J; *SUPPORT OF THE GEOPHYSICS RESEARCH BOARD (GRB) AND THE COMMITTEE ON SOLAR-TERRESTRIAL RESEARCH (CSTR) (ISM-7914131 A03*)*; 12 MONTHS $2,750

SMITHSONIAN INSTITUTION

LANDRUM, BETTY J; *RECORDING OF DATA AND SORTING OF COLLECTIONS FROM POLAR REGIONS (DPP-7413988 A09*)*; 12 MONTHS $71,270

ILLINOIS

UNIVERSITY OF ILLINOIS AT URBANA

WALSH, JOHN E; *SEA SURFACE TEMPERATURE AND SEA ICE VARIABILITY (DPP-8025218)*; 18 MONTHS $50,365

IOWA

UNIVERSITY OF IOWA

SWETT, KEENE; *BIOSTRATIGRAPHIC AND PALEOENVIRONMENTAL COMPARISONS OF UPPER PRECAMBRIAN SEDIMENTARY SUCCESSIONS IN SPITSBERGEN AND CENTRAL EAST GREENLAND (DPP-8019998)*; 12 MONTHS $54,300

MAINE

NORTHEASTERN RESEARCH FOUNDATION INC-BIGELOW LABORATORY FOR OCEAN SCIENCES

CODISPOTI, LOUIS A; *CHEMICAL AND BIOCHEMICAL OBSERVATIONS IN THE EURASIAN BASIN OF THE ARCTIC OCEAN (DPP-8025744)*; 18 MONTHS $69,403

UNIVERSITY OF MAINE, ORONO

FASTOOK, JAMES L, AND HUGHES, TERENCE J; *DISINTEGRATION OF LATE WISCONSIN NORTHERN HEMISPHERE ICE SHEETS (DPP-7902783 A01)*; 12 MONTHS $58,910

KELLOGG, THOMAS B, AND KELLOGG, DAVIDA E; *SEDIMENTS DEPOSITED BY MARINE-BASED ICE SHEETS DURING THE LAST GLACIAL MAXIMUM (DPP-8020000*)*; 12 MONTHS $20,000

MARYLAND

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

FLEMING, REX J; *ARCTIC BASIN BUOY PROGRAM (ATM-8007343 A01*)*; 12 MONTHS $33,300

UNIVERSITY OF MARYLAND, COLLEGE PARK

MATTHEWS, DAVID L; *ROCKET INVESTIGATION OF ELECTRON PRECIPITATION TRIGGERED BY VLF EMISSIONS (DPP-8013722 A02*)*; 12 MONTHS $40,000

MASSACHUSETTS

MARINE BIOLOGICAL LABORATORY

HOBBIE, JOHN E, AND PETERSON, BRUCE J; *ARCTIC LAKE PROCESS STUDIES -- A SYNTHESIS (DPP-8109875)*; 12 MONTHS $32,000

SMITHSONIAN INSTITUTION-ASTROPHYSICAL OBSERVATORY

FIREMAN, EDWARD L; *COMPOSITION AND CARBON-14 CONTENT OF GAS IN ICE AT THE ANTARCTIC METEORITE SITES (DPP-8025134 A01)*; 6 MONTHS $1,500

UNIVERSITY OF MASSACHUSETTS, AMHERST

BRADLEY, RAYMOND S; *CLIMATIC FLUCTUATIONS OF NORTHERNMOST NORTH AMERICA (ATM-8017745*)*; 12 MONTHS $25,000

MICHIGAN

WAYNE STATE UNIVERSITY

MORRIS, ALAN P; *STRUCTURAL AND METAMORPHIC STUDIES IN THE PRE-CARBONIFEROUS OROGEN OF WESTERN SPITSBERGEN, SVALBARD, NORWEGIAN ARCTIC (DPP-8107663)*; 8 MONTHS $16,733

MINNESOTA

UNIVERSITY OF MINNESOTA

CAHILL, LAURENCE J; *MICROPULSATION RESEARCH AT ROBERVAL, QUEBEC, AND AT SIPLE AND SOUTH POLE, ANTARCTICA (DPP-7933994 A03*)*; 12 MONTHS $45,673

WRIGHT, HERBERT E; *DEGLACIATION AND REFORESTATION OF PARTS OF EASTERN AND CENTRAL CANADA (DPP-8100194)*; 12 MONTHS $40,000

MISSOURI

ST LOUIS UNIVERSITY

MITCHELL, BRIAN J; *SEISMICITY AND TECTONICS OF THE EASTERN ARCTIC REGIONS IN AND SURROUNDING SVALBARD (DPP-7927059 A01)*; 12 MONTHS $55,080

VINCENZ, STANISLAW A; *PALEOMAGNETIC INVESTIGATIONS OF SPITSBERGEN, SVALBARD ARCHIPELAGO (DPP-8001965 A01)*; 12 MONTHS $60,500

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

KUIVINEN, KARL C; *COORDINATION OF ICE CORE DRILLING (DPP-7408414 A11*)*; 12 MONTHS $1,000,000

KUIVINEN, KARL C; *COORDINATION OF ICE CORE DRILLING (DPP-7408414 A12*)*; 6 MONTHS $17,387

NEW YORK

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

KUKLA, GEORGE J, AND UNTERSTEINER, NORBERT; *CHANGES OF SNOW AND ICE FIELDS IN TIME (ATM-8001470 A01*)*; 12 MONTHS $32,500

HAYS, JAMES D; CLINE, ROSE M; MC INTYRE, ANDREW; MORLEY, JOSEPH J; AND SHACKLETON, NICHOLAS; *PROJECT SPECMAP: MAPPING VARIATIONS IN OCEAN SPECTRA OVER A FREQUENCY RANGE 10-5 TO 10-1 CYCLES PER YEAR (ATM-8019253*)*; 12 MONTHS $25,000

TALWANI, MANIK; STOFFA, PAUL L; AND BUHL, PETER; *THE APPLICATION OF MULTICHANNEL SEISMIC REFLECTION/ REFRACTION TECHNIQUES TO DEFINE THE CRUSTAL STRUCTURE OF THE NORWEGIAN MARGIN AND THE NORWEGIAN GREENLAND SEA (DPP-8019461)*; 12 MONTHS $157,352

HUNKINS, KENNETH; *PUBLICATION OF AIDJEX OCEANOGRAPHIC DATA (DPP-8025211)*; 12 MONTHS $24,114

STATE UNIVERSITY AT ALBANY

HOGAN, AUSTIN W; *METEOROLOGICAL VARIATION OF ARCTIC AEROSOLS (DPP-8025615)*; 12 MONTHS $70,289

STATE UNIVERSITY AT BUFFALO

LANGWAY, CHESTER C; *OPERATION OF THE CENTRAL ICE CORE STORAGE FACILITY AND INFORMATION EXCHANGE (DPP-7508512 A07*)*; 12 MONTHS $43,000

LANGWAY, CHESTER C; *POLAR ICE CORE ANALYSIS PROGRAM (DPP-7927308 A01)*; 6 MONTHS $39,470

CALKIN, PARKER E, AND ELLIS, JAMES E; *HOLOCENE GLACIATION OF THE BROOKS RANGE, ALASKA (DPP-8020090)*; 12 MONTHS $64,208

OHIO

OHIO STATE UNIVERSITY

COLINVAUX, PAUL A; *ENVIRONMENTAL HISTORY OF TOOLIK LAKE AND TOOLIK DRAINAGE, A COMPONENT OF PROJECT ALPS (ARCTIC LAKE PROCESS STUDIES) (DPP-7723881 A03)*; $18,493

WHILLANS, IAN M; *DYNAMICS OF THE SOUTHERN PORTION OF THE GREENLAND ICE SHEET (DPP-8008356 A01)*; 12 MONTHS $178,267

MCKENZIE, GARRY D; *IPA MOBILITY ASSIGNMENT (DPP-8116268*)*; 13 MONTHS $12,120

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

DAVIDSON, CLIFF I; *WET AND DRY DEPOSITION OF ATMOSPHERIC TRACE ELEMENTS IN GREENLAND AND IN BARROW, ALASKA (DPP-8020928)*; 24 MONTHS $88,484

UNIVERSITY OF PENNSYLVANIA

RICKLEFS, ROBERT E; *DIET AND REPRODUCTION IN HIGH-LATITUDE PLANKTON-FEEDING SEABIRDS (DPP-8021251*)*; 24 MONTHS $48,345

GEBHART, BENJAMIN; *INTERPRETATION OF NORSEX V ARCTIC ICE-PACK MEASUREMENTS (DPP-8118186)*; 12 MONTHS $41,825

WASHINGTON

UNIVERSITY OF WASHINGTON

BROWN, ROBERT A; *ARCTIC ATMOSPHERIC BOUNDARY LAYER STUDY (DPP-7805744 A01)*; 6 MONTHS $8,749

LACHAPELLE, EDWARD R; *BLUE-GLACIER PROJECT (DPP-7902886 A02)*; 12 MONTHS $22,629

RAYMOND, CHARLES F, AND MALONE, STEPHEN D; *RELATIONSHIP OF DIRECTLY OBSERVED BASAL SLIDING RATE AND CONDITIONS TO VARIATIONS IN SURFACE VELOCITY, STRAIN-RATE, AND SEISMIC ACTIVITY (DPP-7902942 A02)*; 11 MONTHS $7,075

UGOLINI, FIORENZO C; *DYNAMICS OF SOIL FORMING PROCESSES IN ARCTIC ALASKA (DPP-8006795 A01)*; 12 MONTHS $65,525

AAGAARD, KNUT; *A STUDY OF THE EURASIAN BASIN OF THE ARCTIC OCEAN (DPP-8100153*)*; 12 MONTHS $296,893

BRUBAKER, LINDA B; *PATTERNS OF LATE-WISCONSIN AND HOLOCENE VEGETATION CHANGE IN NORTHERN INTERIOR ALASKA (DPP-8106806)*; 12 MONTHS $40,000

BRUBAKER, LINDA B; *PATTERNS OF LATE-WISCONSIN AND HOLOCENE VEGETATION CHANGE IN NORTHERN INTERIOR ALASKA (DPP-8106806 A01)*; 36 MONTHS $7,000

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

CRADDOCK, CAMPBELL J; *STRUCTURAL STUDIES IN WESTERN SVALBARD (DPP-7902941 A02)*; 12 MONTHS $67,184

HERMAN, GERALD F; *THE ARCTIC STRATUS EXPERIMENT: DATA ANALYSIS (DPP-8023733)*; 12 MONTHS $70,683

OTHER,AAEO

ALASKA

UNIVERSITY OF ALASKA FAIRBANKS CAMPUS-GEOPHYSICAL INSTITUTE

OLSON, JOHN V; *A PROGRAM TO INVESTIGATE THE ULF PULSATION SPECTRUM AT HIGH-LATITUDES AND IN THE POLAR CAP (ATM-8111465*)*; 12 MONTHS $5,319

AKASOFU, SYUN-ICHI; *A STUDY OF MAGNETOSPHERIC SUBSTORMS (ATM-8115321*)*; 12 MONTHS $5,500

ARIZONA

UNIVERSITY OF ARIZONA

STOCKTON, CHARLES W; *PROJECTED EFFECTS OF CLIMATIC VARIATION UPON WATER AVAILABILITY IN WESTERN UNITED STATES (ATM-7924365 A02*)*; 12 MONTHS $1,510

COLORADO

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

WHITE, ROBERT M; *OPERATION, MAINTENANCE, AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH AND THE NATIONAL SCIENTIFIC BALLOON FACILITY (ATM-7723757 A80*)*; $3,664

WHITE, ROBERT M; *CONTRACT FOR MANAGEMENT, OPERATION, AND MAINTENANCE OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH (ATM-7723757 A87*)*; $2,473

WHITE, ROBERT M; *OPERATION, MAINTENANCE AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH AND THE NATIONAL SCIENTIFIC BALLOON FACILITY (ATM-7723757 A94*)*; $11,360

DISTRICT OF COLUMBIA

NATIONAL ACADEMY OF SCIENCES

HART, PEMBROKE J; *STUDIES IN GEOPHYSICS (EAR-7902458 A09*)*; 12 MONTHS $7,250

GEORGIA

ATLANTA UNIVERSITY

HALL, JOHN H; *A PROPOSAL FOR THE DEVELOPMENT OF RESEARCH COMPUTER FACILITIES (ATM-8118636*)*; 12 MONTHS $464,100

GEORGIA INSTITUTE OF TECHNOLGY MAIN CAMPUS

KIANG, C S; *DEVELOPMENT OF GRADUATE RESEARCH OPPORTUNITIES IN ATMOSPHERIC AND TERRESTRIAL SCIENCES (29M-8009560 A01*)*; 7 MONTHS $54,500

ILLINOIS

NORTHWESTERN UNIVERSITY

MACKENZIE, FRED T; *GLOBAL GEOCHEMICAL CYCLES OF THE ELEMENTS (EAR-7612279 A06*)*; $1,800

UNIVERSITY OF CHICAGO

SRIVASTAVA, RAMESH C; *STUDIES OF MESOSCALE ORGANIZED CONVECTION DURING CCOPE (ATM-8109556*)*; 15 MONTHS $200

UNIVERSITY OF ILLINOIS AT URBANA

CHANGNON, STANLEY A; *A STUDY OF SUMMER RAINFALL OVER LAKE MICHIGAN AND ENVIRONS (ATM-8001653 A01*)*; $8,472

MARYLAND

UNIVERSITY OF MARYLAND, COLLEGE PARK

KUNDU, MUKUL R; *TRAVEL SUPPORT FOR U.S. PARTICIPANTS IN THE SOLAR MAXIMUM YEAR WORKSHOP AT ANNECY, FRANCE, 15-19 OCTOBER 1981 (ATM-8116951*)*; 12 MONTHS $12,750

NEVADA

DESERT RESEARCH INSTITUTE

TELFORD, JAMES W; *THE CLOUD PHYSICS AND DYNAMICS OF SEA STRATUS (ATM-8012929*)*; 12 MONTHS $7,700

NEW HAMPSHIRE

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

CLARK, RONALD R; *MONITORING OF UPPER ATMOSPHERIC WINDS WITH THE UNH METEOR RADAR SYSTEM (ATM-8109011*)*; 12 MONTHS $7,000

TEXAS

RICE UNIVERSITY

FEW, ARTHUR A; *AN INVESTIGATION OF RELATIONSHIPS BETWEEN LIGHTNING GEOMETRY AND THUNDERSTORM PROPERTIES (ATM-7821764 A02*)*; 3 MONTHS $2,337

WASHINGTON

UNIVERSITY OF WASHINGTON

STUIVER, MINZE; *ATMOSPHERIC 14 C ACTIVITY AND ITS RELATIONSHIP TO SOLAR VARIABILITY AND CLIMATE CHANGE (ATM-8022240 A01*)*; $4,023

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

JOHNSON, DONALD R; *DIAGNOSTICS OF THE HEAT SOURCES AND SINKS OF THE ASIATIC MONSOON AND THE THERMALLY FORCED PLANETARY SCALE RESPONSE (29M-7822384 A02*)*; 12 MONTHS $1,007

SCIENTIFIC, TECHNOLOGICAL AND INTERNATIONAL AFFAIRS

INDUSTRIAL SCIENCE AND TECHNOLOGY INNOVATION

ARIZONA

UNIVERSITY OF ARIZONA

DEMER, LOUIS J, AND VARKER, CHARLES J; *INDUSTRY/UNIVERSITY COOPERATIVE PROGRAM (IUC) - CORRELATION OF ELECTRICALLY-ACTIVE DEFECTS IN SILICON WAFERS WITH STRUCTURAL INHOMOGENEITIES IN AS-GROWN CRYSTALS (DMR-7918023 A01*)*; 12 MONTHS $63,200

GIBBS, HYATT M; *OPTICAL BISTABILITY EXPERIMENTS TO IMPROVE SOLID-STATE DEVICES AND BASIC UNDERSTANDING (ECS-8020303*)*; 12 MONTHS $40,000

ARKANSAS

UNIVERSITY OF ARKANSAS FAYETTEVILLE

DOUGLAS, DAVID; *A UNIVERSITY/INDUSTRY EXPERIMENTAL CENTER PROGRAM FOR SMALL MANUFACTURERS (ISI-7823882 A02)*; 36 MONTHS $110,000

CALIFORNIA

ADAPTIVE TECHNOLOGIES INC

KERTH, WILLIAM J, KERTH, WILLIAM J, BRAND, HARRY, AND DORF, RICHARD C; *DIGITALLY-CONTROLLED ADAPTIVE WELDING SYSTEM (MEA-8114378*)*; 12 MONTHS $177,596

ADVANCED RESEARCH AND APPLICATION CORPORATION

STANLEY, JAMES H; *COMPTON BACKSCATTER COMPUTED TOMOGRAPHY (DMR-8113807*)*; 6 MONTHS $29,734

PALKUTI, LESLIE J; *HIGH-THROUGHOUT LINE-SOURCE ELECTRON BEAM PROCESSING OF SILICON-ON-INSULATOR STRUCTURES FOR MICROELECTRONICS (ECS-8114147*)*; 6 MONTHS $28,758

ANCO ENGINEERS INC

RENTZ, PETER E; *SEISMIC HAZARD ASSESSMENT OF NONSTRUCTURAL CEILING COMPONENTS (CEE-8114155*)*; 6 MONTHS $19,372

CAL RECOVERY SYSTEMS INC

DIAZ, LUIS F; *TOPIC NO. 22: INTEGRATED ENERGY-AGRO-WASTE SYSTEMS FOR SMALL-SCALE FARMS (ISP-8113803*)*; 6 MONTHS $29,623

CALIFORNIA INSTITUTE OF TECHNOLOGY

MEAD, CARVER A; *DESIGN OF SILICON STRUCTURES (MCS-7826367 A02*)*; 12 MONTHS $96,221

SABERSKY, ROLF H, BRENNEN, CHRISTOPH E, GROSS, L H, AND HAGERTY, R O; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH PROGRAM: FLOW AND HEAT TRANSFER IN GRANULAR MEDIA (MEA-791513; A01*)*; 12 MONTHS $52,742

CHARLES EVANS & ASSOCIATES

FURMAN, BRUCE K; *AN ADVANCED DETECTION SYSTEM FOR QUANTITATIVE THREE-DIMENSIONAL ION MICROSCOPY (DMR-8113779*)*; 6 MONTHS $30,000

CYCLOTOMICS INC

BERLEKAMP, ELWYN R; *TOPIC NO. 8: CODING FOR BAND-LIMITED CHANNELS (ECS-8114270*)*; 6 MONTHS $30,000

DAMES & MOORE

CHERY, DONALD, AND TUCKER, RICHARD C; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: STOCHASTIC MODELING OF STREAMFLOW WITH A PHYSICAL BASIS (CEE-7907793 A01*)*; 12 MONTHS $37,000

DOW ASSOCIATES INC

MCSWAIN, BERAH D; *TOPIC NO. 22: ECOLOGICAL PRINCIPLES OF STABILITY AS A MEANS OF UNDERSTANDING THE ROLE OF APPROPRIATE TECHNOLOGY IN AGRICULTURE (ISP-8114050*)*; 6 MONTHS $28,855

ECOENERGETICS INC

BENEMANN, JOHN R; *POLYSACCHARIDE PRODUCTION BY MICROALGAE (ISI-8019903)*; 12 MONTHS $122,239

BENEMANN, JOHN R; *TOPIC NO. 2: CHEMICALS FROM SALT LOVING (HALOPHILIC) MICROBES (CPE-8114333*)*; 6 MONTHS $29,988

ELECTROCHIMICA CORPORATION

EISENBERG, M, PALUMBO, G, AND WONG SR, K; *DEVELOPMENT OF NON-NOBLE METAL ELECTROCATALYSTS (CPE-8114483*)*; 6 MONTHS $29,529

GLASS & CERAMICS INTERNATIONAL INC

ALI, MIR AKBAR; *PRODUCTION OF MINERAL WOOL FROM FLY ASH AND CEMENT KILN RESIDUES (ISP-8115229*)*; 24 MONTHS $237,006

HARVEY MUDD COLLEGE

MYHRE, PHILIP C; *INDUSTRIAL/UNIVERSITY COOPERATIVE PROGRAM: CARBON-13 NMR STUDIES OF CARBONIUM IONS IN THE SOLID STATE (CHE-8020743*)*; 12 MONTHS $50,286

HUGHES AIRCRAFT COMPANY-HUGHES RESEARCH LABORATORIES

NUDD, GRAHAM R; *IUC/VLSI COMPUTING STRUCTURES (ECS-8016581 A01*)*; 12 MONTHS $163,669

NUDD, GRAHAM R; *INDUSTRY UNIVERSITY COOPERATIVE RESEARCH: VLSI COMPUTING STRUCTURES (ECS-8016581 A02*)*; 12 MONTHS $170,507

LOCKHEED MISSILES AND SPACE COMPANY INC-LOCKHEED PALO ALTO RESEARCH LABORATORY

PRONKO, JOHN G, AND KOHLER, D A; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: SEARCH FOR SECOND - CLASS CURRENTS IN NUCLEAR BETA DECAY (PHY-7800855 A03*)*; $49,975

MACHINE INTELLIGENCE CORPORATION

ROSEN, CHARLES A; *MICROCOMPUTER-BASED NATURAL LANGUAGE UNDERSTANDING (MEA-8018281*)*; 18 MONTHS $211,608

MICHAEL E DURKIN ASSOCIATES

DURKIN, MICHAEL E; *ALTERNATIVE METHODS FOR HAZARD REDUCTION IN UNREINFORCED MASONRY BUILDINGS (CEE-8113750*)*; 6 MONTHS $20,000

MICROBOT INC

HILL, JOHN W; *SERVO FOR INDUSTRIAL ROBOT WITH FORCE CONTROL (ECS-8113808*)*; 6 MONTHS $29,990

QUANTATEC INTERNATIONAL INC

YOUNG, ROBERT A; *PHOTON INDUCED SURFACE CONDUCTIVITY REQUIRING THE PRESENCE OF SORBED PHOTOIONIZABLE SPECIES (DMR-8114108*)*; 6 MONTHS $30,000

RELATIONAL TECHNOLOGY INC

BUTTERWORTH, PAUL E; *DISTRIBUTED DATABASE MANAGEMENT OF LOCAL NETWORKS (ECS-8114274*)*; 6 MONTHS $28,448

ROCKWELL INTERNATIONAL CORPORATION

CLARKE, DAVID R; *INDUSTRY/ UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THERMODYNAMIC PARAMETERS RELATING PHASE RETENTION AND MICROCRACKING IN CERAMICS (DMR-8007445 A01*)*; $121,876

CLARKE, DAVID R; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THERMODYNAMIC PARAMETERS RELATING PHASE RETENTION AND MICROCRACKING IN CERAMICS (DMR-8007445 A02*)*; $3,024

SCIENTIFIC SERVICE INC

REITHERMAN, ROBERT K; *COMPREHENSIVE COMPUTER-AIDED EARTHQUAKE ANALYSIS AND PROGRAM DEVELOPMENT FOR BUSINESS AND INDUSTRY (CEE-8114231*)*; 6 MONTHS $17,715

SPECTRON DEVELOPMENT LABORATORIES INC

HILDEBRAND, B P; *EDDY CURRENT IMAGING (DMR-8113820*)*; 6 MONTHS $30,000

STANFORD UNIVERSITY

IGLEHART, DONALD L; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH: DISCRETE EVENT METHODS FOR COMPUTER SYSTEM SIMULATION (MCS-7909139 A04*)*; 12 MONTHS $34,336

GOODMAN, JOSEPH W, AND MACOVSKI, ALBERT; *MULTIPLEXED HOLOGRAPHIC RECONSTRUCTION METHODS FOR THREE-DIMENSIONAL STRUCTURES (ECS-7926432 A01*)*; 12 MONTHS $103,010

DONIACH, SEBASTIAN; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THEORY OF COOPERATIVE PHENOMENA IN SUPERFLUID SYSTEMS OF REDUCED DIMENSIONALITY (DMR-8007934 A01*)*; 12 MONTHS $17,400

CHOWNING, JOHN M; *INTELLIGENT SYSTEMS FOR THE ANALYSIS OF DIGITIZED ACOUSTIC SIGNALS (MCS-8012476 A01*)*; 12 MONTHS $55,189

COHEN, BERNARD P; *THE RELATIONSHIP BETWEEN RESEARCH TEAM SOCIAL STRUCTURE AND TEAM INNOVATION (ISI-8100383)*; 12 MONTHS $71,487

SYSTEMS CONTROL INC

GREEN, C CORDELL; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: INTELLIGENT SYSTEMS FOR THE ANALYSIS OF DIGITIZED ACOUSTIC SIGNALS (MCS-7923282 A01*)*; 12 MONTHS $55,754

TELESENSORY SYSTEMS INC

MURPHY, FRED; *PVF2 TACTILE STIMULATORS FOR THE OPTACON: PHASE II (ECS-8110736*)*; 18 MONTHS $192,507

UNIVERSITY OF CALIFORNIA, BERKELEY

WONG, EUGENE, AND WEELDREYER, JAMES A; *INDUSTRY/ UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: HETEROGENEOUS DATA MODELS AND DISTRIBUTED DATABASE ARCHITECTURE (ECS-8007683 A01*)*; 12 MONTHS $117,993

WONG, EUGENE; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: HETEROGENEOUS DATA MODELS AND DISTRIBUTED DATABASE ARCHITECTURE (ECS-8007683 A02*)*; 12 MONTHS $100,007

UNIVERSITY OF CALIFORNIA, LOS ANGELES

WONG, ALFRED Y, AND DIMONTE, GUY; *HIGHLY NONLINEAR PHENOMENA AND PHYSICS OF CONFINEMENT/INDUS. UNIV. COOP PROGRAM (PHY-7908480 A02*)*; 12 MONTHS $289,065

YEH, CAVOUR W, AND LEE, KELVIN S; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THE SCATTERING OF A STRONGLY FOCUSED LASER BEAM BY FINE PARTICLES (CPE-8017436*)*; 24 MONTHS $187,917

YEH, CAVOUR W; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH: THE EXPLOITATION OF GUIDED WAVE OPTICS IN LOCAL COMPUTER NETWORKS (ECS-8020300*)*; 12 MONTHS $62,500

UNIVERSITY OF CALIFORNIA, SAN DIEGO

FISK, ZACHARY, AND MAPLE, M BRIAN; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: CORRELATIONS BETWEEN SUPERCONDUCTIVITY AND MAGNETISM THROUGH NEW TERNARY COMPOUNDS (DMR-8017743*)*; 12 MONTHS $105,000

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

KAPANY, NARINDER S, AND ROSENBLUM, BRUCE; *CENTER FOR INNOVATION AND ENTREPRENEURIAL DEVELOPMENT (ISI-8114425)*; 12 MONTHS $99,763

COLORADO

UNIVERSITY OF COLORADO AT BOULDER

GUSTAFSON, KARL E; *INDUSTRY-UNIVERSITY COOP RES: COMPUTATIONAL STUDIES AND SOFTWARE DEVELOPMENT IN HYDRODYNAMICS, CONCENTRATION DIFFUSION EQUATIONS, AND CHEMICAL KINETICS (MCS-8012220*)*; 12 MONTHS $41,313

UNIVERSITY OF DENVER

LEYDEN, DONALD E; *INDUSTRY/UNIVERSITY COOPERATIVE PROGRAM FOR THE SYNTHESIS AND CHARACTERIZATION OF CHEMICALLY MODIFIED ADSORBENTS (CHE-7823123 A02*)*; 12 MONTHS $155,378

VIBRASOUND RESEARCH CORPORATION

KUHN, GEORGE F; *HEARING AIDS FOR SPATIAL PERCEPTION AND LOCALIZATION (ECS-8023377*)*; 24 MONTHS $200,000

CONNECTICUT

ADVANCED FUEL RESEARCH INC

HAMBLEN, DAVID G; *MICROANALYSIS METHODS FOR INHOMOGENEOUS MATERIALS (PHY-8113867*)*; 6 MONTHS $29,994

SCIENTIFIC RESEARCH ASSOCIATES INC-CT

GRUBIN, HAROLD L; *TRANSIENT THREE DIMENSIONAL NUMERICAL SIMULATION OF MICROELECTRONIC SEMICONDUCTOR DEVICES (ECS-8114389*)*; 6 MONTHS $29,550

SIMCO INC

SCHELD, H WILLIAM; *FOOD AND PETROLEUM RESOURCES FROM THE CHINESE TALLOW TREE PHASE II (PCM-8114536*)*; 20 MONTHS $199,918

UNIVERSITY OF CONNECTICUT

EPLING, GARY A; *INDUSTRY/ UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: PHOTOCHEMISTRY FROM HIGHER EXCITED STATES OF 1,4-DIENES AND ALLYLCYCLOPROPANES (CHE-8015355 A01*)*; $80,395

EPLING, GARY A, AND SRINIVASAN, R; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: PHOTOCHEMISTRY FROM HIGHER EXCITED STATES OF 1,4-DIENES AND ALLYLCYCLOPROPANES (CHE-8015355 A02*)*; 12 MONTHS $79,200

YALE UNIVERSITY

HERZENBERG, ARVID, AND HYMAN, HOWARD; *INDUSTRY/ UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THEORETICAL INVESTIGATION OF ELECTRON IMPACT EXCITATION PROCESSES (PHY-8005467 A01*)*; $94,479

HERZENBERG, ARVID, AND HYMAN, HOWARD; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THEORETICAL INVESTIGATION OF ELECTRON IMPACT EXCITATION PROCESSES (PHY-8005467 A02*)*; 12 MONTHS $60,000

RANIS, GUSTAV, EVENSON, ROBERT E, AND FEI, JOHN C; *INTERNATIONAL AND DOMESTIC DETERMINANTS OF LDC TECHNOLOGY CHOICE: CONTRASTING AGRICULTURAL AND INDUSTRIAL EXPERIENCE (ISI-8018867 A01)*; 6 MONTHS $127,526

LEVIN, RICHARD C, AND PECK, MERTON J; *DYNAMIC COMPETITION: A PROGRAM OF RESEARCH ON TECHNOLOGICAL CHANGE AND MARKET STRUCTURE (PRA-8019779*)*; 12 MONTHS $124,977

COLSON, STEVEN D; *INDUSTRY/UNIVERSITY COOPERATIVE ACTIVITY: ELECTRONIC STRUCTURE AND MOLECULAR DYNAMICS THROUGH MULTIPHOTON LASER SPECTROSCOPY (CHE-8020618*)*; 12 MONTHS $29,627

DELAWARE

UNIVERSITY OF DELAWARE

KATZER, JAMES R, AND GATES, BRUCE C; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH: SUPPORTED METAL AND METAL-CLUSTER CATALYSTS: CHARACTERIZATION AND FORMULATION (CPE-8016212*)*; 12 MONTHS $154,973

DISTRICT OF COLUMBIA

AMERICAN UNIVERSITY

WATERS, PAUL F, AND BREUER, MIKLOS M; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ADSORPTION OF POLYMER-SURFACTANT COMPLEXES ON SOLID SURFACES (CPE-8010687*)*; 12 MONTHS $82,816

ELECTRONIC INDUSTRIES FOUNDATION

MAGEE, JAMES T, AND SOLOMAN, GLEN R; *STUDY OF ELECTRONIC INDUSTRIES RESEARCH INTERESTS (ISI-8026088)*; 6 MONTHS $23,719

INSTITUTE OF PUBLIC ADMINISTRATION-INSTITUTE OF PUBLIC ADMINISTRATION-D C

SWEEZY, ELDON E, AND MYERS, SUMNER; *COMMERCIALIZATION OF FEDERAL CIVILIAN RESEARCH AND DEVELOPMENT (ISI-7919862 A01)*; 6 MONTHS $70,769

PUBLIC TECHNOLOGY INC

PARKER, JOHN K; *THE ESTABLISHMENT, OPERATION AND DOCUMENTATION OF THE PERFORMANCE OF AN EXPERIMENTAL URBAN TECHNOLOGY SYSTEM FOR LOCAL GOVERNMENTS (ISP-7907224 A11)*; 1 MONTHS $64,766

FLORIDA

KAZUKO ENTERPRISES INC

MINCH, JACK R; *SMALL BUSINESS: TOPIC 10 DISTANCE SENSOR FOR ROBOTICS (ECS-8114506*)*; 6 MONTHS $28,801

GEORGIA

GEORGIA INSTITUTE OF TECHNOLGY MAIN CAMPUS

WHITE, JOHN A; *PLANNING PROJECT FOR A MATERIAL HANDLING RESEARCH CENTER (061-8115823*)*; 12 MONTHS $99,716

HAWAII

AQUATIC FARMS

MERIWETHER, FRANK, AND OKAMURA, WAYNE Y; *TOPIC NO. 16: CAGE CULTURE OF RED TILAPIA IN PRAWN AND SHRIMP PONDS (OCE-8113719*)*; 6 MONTHS $29,969

ILLINOIS

DEPAUL UNIVERSITY

ETTLIE, JOHN E; *A LONGITUDINAL STUDY OF TECHNOLOGICAL INNOVATION IN THE FOOD PROCESSING INDUSTRY (ISI-7914354 A02)*; 4 MONTHS $23,709

ILLINOIS INSTITUTE OF TECHNOLOGY

SHIRK, JAMES S; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ON INTRACAVITY LASER SPECTROSCOPY (CHE-7909380 A02*)*; 12 MONTHS $45,850

NORTHWESTERN UNIVERSITY

CHENG, HERBERT S; *UNIVERSITY/INDUSTRY COOPERATIVE RESEARCH: AN ANALYTICAL MODEL FOR PREDICTION OF SURFACE PITTING LIFE IN SPUR AND HELICAL GEARS (MEA-7923261 A01*)*; 12 MONTHS $135,181

CHUNG, YIP-WAH, AND FINE, MORRIS E; *INDUSTRY/ UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: SURFACE CONDITIONS ON FATIGUE CRACK INITIATION IN IRON AND STEELS (DMR-7926179 A01*)*; 12 MONTHS $45,200

UNIVERSITY OF CHICAGO

LEVI-SETTI, RICCARDO; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: DEVELOPMENT OF A NEW HIGH-RESOLUTION SCANNING ION MICROPROBE (DMR-8007978 A01*)*; $40,942

LEVI-SETTI, RICCARDO; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: DEVELOPMENT OF A NEW HIGH-RESOLUTION SCANNING ION MICROPROBE (DMR-8007978 A02*)*; 12 MONTHS $118,900

FREED, KARL F; *INDUSTRY/UNIVERSITY COOPERATIVE ACTIVITY: THEORETICAL STUDIES IN CHEMISTRY (CHE-8023456*)*; 12 MONTHS $40,000

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

MANSOORI, G ALI, AND PALMER, DAVID A; *PREDICTION OF FLUID-PHASE EQUILIBRIUM PROPERTIES OF INDUSTRIALLY IMPORTANT CHEMICAL COMPOUNDS (CPE-8018154*);* 24 MONTHS $48,895

UNIVERSITY OF ILLINOIS AT URBANA

STILLMAN, GREGORY E; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH PROGRAM: AVALANCHE PHOTODIDE APPLICATIONS OF QUATERNARY ALLOYS FOR FIBEROPTICAL COMMUNICATION SYSTEMS (ECS-7917581 A01*);* 12 MONTHS $44,957

INDIANA

PURDUE UNIVERSITY

SATO, HIROSHI, AND KIKUCHI, RYOICHI; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: KENETICS OF PHASE TRANSITIONS (DMR-7903932 A02*);* 12 MONTHS $15,600

ARONSON, ARTHUR I; *STRUCTURE AND FUNCTION OF BACILLUS THURINGIENSIS (PCM-7907591 A01*);* 12 MONTHS $75,000

REKLAITIS, GINTARAS V, AND OKOS, M R; *INDUSTRY/ UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: COMPUTER AIDED DESIGN AND ANALYSIS OF MULTIPRODUCT BATCH/ SEMICONTINUOUS PROCESSES (CPE-7914565*);* 12 MONTHS $132,272

PIERRET, ROBERT F, AND GUNSHOR, ROBERT L; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ELECTROPHYSICAL ASPECTS OF MONOLITHIC SAW STRUCTURES (ECS-8009793*);* 12 MONTHS $110,707

FRIEDLAENDER, FRITZ J, WANKAT, PHILLIP C, AND PETRAKIS, LEON; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: HIGH GRADIENT MAGNETIC SEPARATION (CPE-8023184*);* 12 MONTHS $91,907

MAINE

ABANDONED FARM INC

MYERS, EDWARD A; *TOPIC NO. 16: A FEASIBILITY EXPERIMENT IN STABILIZING CANADIAN MUSSEL SEED TRANSPLANTED INTO NEW ENGLAND WATERS (OCE-8114158*);* 6 MONTHS $29,610

FIBER MATERIALS INC

PEPIN, JOHN N; *THE STUDY OF FATIGUE MECHANISMS IN A 3D CARBON-CARBON COMPOSITE (ECS-8113723*);* 6 MONTHS $29,854

SHEEHAN, JAMES E; *FIBER-REINFORCED MICROCRACKED CERAMICS (DMR-8113781*);* 6 MONTHS $29,817

UNIVERSITY OF MAINE, ORONO

SMITH, CHARLES W, AND SCHWARZ, KLAUS W; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: TIME AND SPACE-RESOLVED TURBULENCE IN SUPERFLUID HELIUM-4 (DMR-8005358 A01*);* 12 MONTHS $55,300

MARYLAND

ADVANCED TECHNOLOGY & RESEARCH INC

CHEN, JIGIEN; *IN-SITU DETERMINATION OF DAMPING OF SOILS (CEE-8113897*);* 6 MONTHS $19,295

CHEN, JIGIEN; *APPLICATION OF THE RANDOM DECREMENT TECHNIQUE TO IMPROVE THE EARTHQUAKE SURVIVABILITY OF STRUCTURES ON SOIL FOUNDATION (CEE-8114558*);* 24 MONTHS $23,515

ANDRULIS RESEARCH CORPORATION

SWEET, EDWARD M; *HYBRID-PHASE CATALYSTS FOR THE OXIDATION OF PHENOL TO BENZOQUINONE (CPE-8114085*);* 6 MONTHS $29,433

BETHESDA CORPORATION

RAFF, SAMUEL J; *TORQUE LIMITING SOCKETS FOR IMPACT WRENCH (MEA-8020236*);* 18 MONTHS $88,392

EMV ASSOCIATES INC

MCALEAR, JAMES H; *BIOTECHNICAL MULTI-ELECTRODE/NEURONAL INTERFACE (ECS-8114117*);* 6 MONTHS $29,904

HYDRONAUTICS INC

CHAHINE, GEORGES L; *PHASE I SMALL BUSINESS INNOVATIVE RESEARCH: SELF-RESONATING HIGH PRESSURE WATER JETS FOR TUNNELING, EXCAVATION, AND MINING (CEE-8114063*);* 6 MONTHS $28,711

CONN, ANDREW F; *TOPIC NO. 22: REDUCING/SEPARATING RECOVERABLE DEMOLITION WASTES WITH CAVITATING WATER JETS (ISP-8114084*);* 6 MONTHS $28,670

JOHNS HOPKINS UNIVERSITY

COWAN, DWAINE O; *INDUSTRY - UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: SYSTEMATIC DEVELOPMENT OF NEW ORGANIC CONDUCTORS (DMR-8015318 A01*);* 12 MONTHS $105,800

JTC ENVIRONMENTAL CONSULTANTS INC

COOKSON, JOHN T; *INHIBITION OF MICROBIAL GROWTH ON ACTIVATED CARBON BEDS (CEE-8114146*);* 6 MONTHS $29,588

KING RESEARCH INC

LISTON, DAVID M; *RESEARCH INTO THE STRUCTURE, ACCESSING, AND MANIPULATION OF NUMERIC DATABASES: PHASE I (IST-8114042*);* 6 MONTHS $29,978

L N K CORPORATION

HAYES, KENNETH C; *RECOGNITION OF PARTS AND THEIR ORIENTATION FOR AUTOMATIC HANDLING AND INSPECTION - PHASE II (MEA-8018124*);* 10 MONTHS $170,000

MARTIN MARIETTA CORPORATION-MARTIN MARIETTA LABORATORY

SKALNY, JAN P; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: FORMATION AND REACTIVITY OF TRICALCIUM SILICATE AND DICALCIUM SILICATE (CEE-7902665 A01*);* 12 MONTHS $40,880

TRAUGOTT, STEPHEN C; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH: DYNAMICS OF BUBBLES BENEATH DOWNWARD-FACING SURFACES (MEA-7926007*);* 24 MONTHS $53,786

SOLAREX CORPORATION

WOHLGEMUTH, JOHN; *CHEMICAL VAPOR DEPOSITION OF AMORPHOUS SILICON (DMR-8114221*);* 6 MONTHS $29,961

UNIVERSITY OF MARYLAND, COLLEGE PARK

BAILEY, WILLIAM J; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: SYNTHESIS OF MONOMERS THAT EXPAND ON POLYMERIZATION (DMR-8016261*);* 12 MONTHS $55,484

HATCH, RANDOLPH T, CADMAN, THEODORE W, AND COOK, THOMAS M; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: DEVELOPMENT OF CONTINUOUS MIXED (CPE-8016547*);* 12 MONTHS $68,623

MASSACHUSETTS

ADVANCED MECHANICAL TECHNOLOGY INC

WHITE, BRUCE F; *IMPEDANCE TEST FOR INTRAMEDULLARY ANCHORED FEMORAL PROSTHESIS LOOSENING (ECS-8113936*);* 6 MONTHS $28,907

AERODYNE RESEARCH INC

CAULFIELD, H JOHN; *SCANNING SPECTRAL CORRELATOR (DMR-8114251*);* 6 MONTHS $30,000

ALPHATECH INC

SANDELL, NILS R; *ON-LINE TOOL WEAR ESTIMATION AND FAILURE PREDICTION IN METAL-CUTTING OPERATIONS (ECS-8113742*);* 6 MONTHS $28,965

AUTOMATIX INC

TREPAGNIER, PIERRE; *SMALL BUSINESS: TOPIC 1: ADVANCED PROGRAMMABLE GREY-SCALE VISION FOR ROBOTICS PHASE 1 (ECS-8114099*);* 6 MONTHS $30,000

CAMBRIDGE COLLABORATIVE

PARSONS, NATAN; *THE APPLICATION OF RESILIENT BEARINGS TO A CRANKSHAFT OF A DIESEL ENGINE (CPE-8114081*);* 6 MONTHS $28,775

CASTLE TECHNOLOGY CORPORATION

PEMSLER, J PAUL; *ELECTROCHEMICAL PRODUCTION OF OZONE (CPE-8113348*);* 6 MONTHS $30,000

PEMSLER, J PAUL; *ELECTROREFINING OF ALUMINUM (CPE-8115213*);* 24 MONTHS $100,000

CLARK UNIVERSITY

JONES, ALAN A; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: NUCLEAR SPIN RELAXATION AND LOCAL MOTIONS IN SYNTHETIC POLYMERS (DMR-8106239 A01*);* $30,900

COLLABORATIVE RESEARCH INC

ALFORD, BERNADETT L; *THE OPTIMIZATION AND AUTOMATION OF GENE SYNTHESIS (PCM-8114110*);* 6 MONTHS $29,983

COVALENT ASSOCIATES

KOCH, VICTOR R; *ELECTROCATALYTIC REDUCTION OF LIGNIN TO PHENOLIC FEEDSTOCKS (CPE-8113687*);* 6 MONTHS $28,888

EAGLE ENGINEERING INC

PHILP, SANBORN F; *TOPIC NO. 13: THE DIRECT ACTION OF ELECTROMAGNETIC FIELDS ON FLUIDS (MEA-8113794*);* 6 MONTHS $30,000

GEOTECHNICAL ENGINEERS INC

CASTRO, GONZALO; *FIELD INDEX TEST FOR ESTIMATING LIQUEFACTION POTENTIAL (CEE-8114111*);* 6 MONTHS $18,305

HAHN ASSOCIATES

HAHN, ROBERT S; *COMPUTER CONTROL FOR SMALL-HOLE GRINDING (MEA-8113282*);* 6 MONTHS $26,250

HARVARD UNIVERSITY

EMMONS, HOWARD W, AND DE RIS, JOHN; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: DIFFUSION FLAME ENERGY TRANSFERS (CPE-8012985 A01*);* 12 MONTHS $162,009

EMMONS, HOWARD W, AND DE RIS, JOHN; *DIFFUSION FLAME ENERGY TRANSFERS (CPE-8012985 A02*);* 12 MONTHS $110,000

IMEC CORPORATION

FULTON, DONALD E; *TOPIC NO. 13: RESEARCH ON IMPROVED DYNAMIC TORQUE CONTROL OF STANDARD INDUCTION MOTORS (MEA-8114257*);* 6 MONTHS $30,000

KOR INC

WALSH, FRASER M; *A LASER-BASED PHOTOACOUSTIC METHOD FOR MEASURING STABLE ISOTOPE RATIOS (DMR-8114005*);* 6 MONTHS $29,976

AJAMI, ALFRED M; *DEUTERATED ADDITIVES FOR AUTOMOTIVE LUBRICANTS (CPE-8114024*);* 6 MONTHS $28,203

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

DRESSELHAUS, MILDRED S; *INTERDISCIPLINARY MATERIALS RESEARCH (DMR-7824185 A05*);* $90,000

SATTERFIELD, CHARLES N, AND MADON, ROSTAM J; *EFFECT OF BULK LIQUID VS. GAS PHASE ON SELECTIVITY IN THE FISCHER-TROPSCH SYNTHESIS (CPE-7914173 A01*);* 12 MONTHS $45,338

HOWARD, JACK B, AND SIEGLA, DONALD C; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: SOOT FORMATION AND BURNOUT IN FLAMES (CPE-8008071*);* 12 MONTHS $33,060

ZAHN, MARKUS; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: STABILITY AND ELECTRODYNAMICS OF ELECTROFLUIDIZED BEDS (CPE-8020152*);* 24 MONTHS $110,180

JANSSON, DAVID G; *AN INDUSTRY INNOVATION CENTER COOPERATIVE PROGRAM (ISI-8025838);* 12 MONTHS $186,548

WILLIAMS, JOHN E; *CONSTRUCTION OF A 600 MHZ NUCLEAR MAGNETIC RESONANCE SPECTROMETER (CHE-8106374*);* 6 MONTHS $45,000

MERIX CORPORATION

MIX, THOMAS W; *A NEW CLASS OF SEPARATING AGENTS (CPE-8114393*);* 6 MONTHS $29,392

OPTRA INC

HERCHER, MICHAEL; *SMALL BUSINESS: TOPIC 10 ROBOTIC CAMERA IMPROVEMENTS (ECS-8114121*);* 6 MONTHS $29,512

PHYSICAL SCIENCES INC

CALEDONIA, GEORGE E, AND WILKERSON, THOMAS D; *COLLISION INDUCED EMISSION AND LIGHT SCATTERING IN HIGH TEMPERATURE GASES (CPE-8000928 A01*);* 12 MONTHS $64,000

SCIENTIFIC SYSTEMS INC

USORO, PATRICK B, AND MEHRA, RAMAN K; *ADVANCED CONTROL OF ELECTRIC ARC FURNACES (ECS-8113878*);* 6 MONTHS $29,181

SIGNATRON INC

KATES, JAMES M; *ENHANCEMENT OF SPEECH INTELLIGIBILITY FOR THE HEARINGIMPAIRED (ECS-8115807*);* 12 MONTHS $123,010

SISA INC

DUFFLEY, RICHARD P; *ANTIFUNGAL CONSTITUENTS OF RHAMNUS PRINOIDES (PCM-8113822*);* 6 MONTHS $28,632

DUFFLEY, RICHARD P; *ANTIBIOTICS FROM ISOPODS (PCM-8113851*);* 6 MONTHS $28,797

SMITHSONIAN INSTITUTION-ASTROPHYSICAL OBSERVATORY

KALLNE, ELISABETH; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: TRANSMISSION GRATINGS AND OPTICAL CONSTANTS IN THE VACUUM ULTRAVIOLET AND X-RAY REGION (ISI-8104381*);* 9 MONTHS $83,133

SPIRE CORPORATION

VERNON, STANLEY M; *ION BEAM DEPOSITION OF CUBIC BORON NITRIDE AS A HARD COATING FROM BORAZINE (DMR-8113365*);* 6 MONTHS $30,000

YOUNGER, PETER R; *TOPIC NO. 8: FEASIBILITY INVESTIGATION FOR AN ELECTROSTATICALLY BONDED FIBER OPTIC COUPLER (ECS-8113366*);* 6 MONTHS $30,000

THOMAS C WILDER

WILDER, THOMAS C; *TOPIC NO. 22: CHARACTERIZATION OF THREE-METAL GALVANIC CELLS IN SEAWATER (ISP-8113995*);* 6 MONTHS $29,691

UNIVERSITY OF MASSACHUSETTS, AMHERST

STEIN, RICHARD S; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: OPTICAL, X-RAY AND NEUTRON SCATTERING STUDIES OF POLYMER MORPHOLOGY AND RELAXATION (DMR-7805925 A03*);* 12 MONTHS $9,100

STEIN, RICHARD S, AND VOGL, OTTO; *A CENTER FOR UMASS-INDUSTRY RESEARCH ON POLYMERS (ISI-8018103 A01);* 12 MONTHS $247,200

STEIN, RICHARD S, AND VOGL, OTTO; *A CENTER FOR UMASS-INDUSTRY RESEARCH ON POLYMERS (ISI-8018103 A02);* $15,000

WORCESTER POLYTECHNIC INSTITUTE

GERSTENFELD, ARTHUR, AND NOONAN, FRANK; *AN INDUSTRY-UNIVERSITY CENTER FOR RESEARCH ON THE MANAGEMENT OF SCIENCE AND TECHNOLOGICAL DEVELOPMENT (ISI-8116796);* 12 MONTHS $99,600

MICHIGAN

MICHIGAN STATE UNIVERSITY

DAVIDSON, WILLIAM S; *SALIENT PROCESSES IN THE IMPLEMENTATION OF TECHNOLOGY (ISI-7920576 A01);* 18 MONTHS $156,908

GRULKE, ERIC A, AND BLANKS, ROBERT F; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: DIFFUSION AND SORPTION IN HIGH IMPACT POLYSTYRENE (CPE-8008070*);* 24 MONTHS $34,315

PETTY, CHARLES A, AND WILLUS, CHARLES A; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THE EFFECTS OF POLYMER ADDITIVES ON HYDROCYCLONE PERFORMANCE (CPE-8015537*);* 12 MONTHS $15,353

QED CORPORATION

MIODUSZEWSKI, DAVID; *INDUCTIVE HEATING OF SPENT GRANULAR ACTIVATED CARBON (CEE-8114091*);* 6 MONTHS $29,878

SNELL ENVIRONMENTAL GROUP INC

SNELL, JOHN R; *TOPIC NO. 22: RATE OF BIODEGRADATION OF TOXIC ORGANIC COMPOUNDS WHILE IN CONTACT WITH ORGANICS WHICH ARE ACTIVELY COMPOSTING (ISP-8113992*);* 6 MONTHS $29,960

U S AUTOMATION COMPANY

BORODIN, DANIEL J; *THE THERMASTRESS CONCEPT FOR STEEL REINFORCING WIRE MANUFACTURE (MEA-8113681*);* 6 MONTHS $29,252

UNIVERSITY OF MICHIGAN-ANN ARBOR

PELZ, DONALD C; *USE OF INFORMATION IN INNOVATION PROCESSES BY LOCAL GOVERNMENTS (ISI-7920575 A01);* $9,501

SUMMERFIELD, GEORGE C, KING, JOHN S, AND ULLMAN, ROBERT; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: MOLECULAR CONFORMATION OF POLYMERS BY SMALL-ANGLE NEUTRON SCATTERING (DMR-7926954 A01*);* 12 MONTHS $61,600

WANG, HENRY Y, SCHULTZ, JEROME S, AND SAVAGEAU, MICHAEL A; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: APPLICATION OF IN-SITU EXTRACTION ON FERMENTATION PROCESSES (CPE-8010868 A01*);* 12 MONTHS $73,219

TANNENBAUM, ARNOLD S; *THE RELATIONSHIP OF EMPLOYEE OWNERSHIP TO THE TECHNOLOGICAL ADAPTIVENESS AND PERFORMANCE OF COMPANIES (ISI-8104831);* 15 MONTHS $35,000

WAYNE STATE UNIVERSITY

ALEXANDER, RALPH B; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ION CHANNELING STUDIES OF SOLIDS (ISI-8007248 A01*);* $21,200

ALEXANDER, RALPH B; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ION CHANNELING STUDIES OF SOLIDS (DMR-8007248 A02*);* 12 MONTHS $30,400

MINNESOTA

BIO-METRIC SYSTEMS INC

SWANSON, MELVIN J; *COMPETITIVE INHIBITOR-ENZYME IMMUNOASSAY (PCM-8114075*);* 6 MONTHS $29,329

UNIVERSITY OF MINNESOTA AT SAINT PAUL

IWASAKI, IWAO, AND MOORE, JOHN J; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: GRINDING MEDIA CORROSION AND ITS EFFECT ON FLOTATION (CPE-8018395*);* 24 MONTHS $101,320

MISSOURI

UNIVERSITY OF MISSOURI, ROLLA

O KEEFE, THOMAS J, AND JAMES, WILLIAM J; *INDUSTRY/UNIVERSITY COOPERATIVE: ROLE OF TRACE ELEMENTS AND ADDITIVES IN NON-FERROUS ELECTROLYTIC PROCESSING (CSE-8004272 A01);* 12 MONTHS $50,000

WASHINGTON UNIVERSITY

YARIS, ROBERT; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: RELAXATION STUDIES ON GLASSY POLYMERS (DMR-8007025 A01*);* 12 MONTHS $31,900

MONTANA

CENTER FOR INNOVATION INC

YOUNGBLOOD, GERALD E; *FUSION CASTING OF REFRACTORIES IN A CENTRIFUGAL PLASMA FURNACE (DMR-8114160*);* 6 MONTHS $29,875

MONTANA COLLEGE OF MINERAL SCIENCE & TECH

TWIDWELL, LARRY G; *RECOVERY OF METAL VALUES AND DISPOSAL OF ARSENIC FROM COPPER SMELTING FLUE DUSTS (CPE-8014077*);* 24 MONTHS $83,616

NEW JERSEY

DYNALYSIS OF PRINCETON INC

KANTHA, LAKSHMI H; *TOPIC NO. 16: MODELING THE COASTAL OCEAN - A STEP TOWARDS MARINE FORECASTING CAPABILITY (OCE-8113880*);* 6 MONTHS $28,050

PRINCETON UNIVERSITY

WUTHNOW, ROBERT; *NETWORK OF SCIENTIFIC AND TECHNOLOGICAL INFORMATION EXCHANGE IN THE TECHNOLOGICAL INNOVATION PROCESS (ISI-7920573 A01);* 6 MONTHS $11,062

PRUD'HOMME, ROBERT K, AND SMALL, HAMISH; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: FUNDAMENTALS AND APPLICATIONS OF HYDRODYNAMIC CHROMATOGRAPHIC SEPARATIONS (CPE-8003290*);* 12 MONTHS $39,063

ANDERSON, PHILIP W; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: APPLICATIONS OF MANY-BODY THEORY (ISI-8020263*);* 12 MONTHS $84,000

RUTGERS UNIVERSITY

MCLAREN, MALCOLM G; *STUDY FOR A UNIVERSITY-INDUSTRY CERAMICS COOPERATIVE RESEARCH CENTER (ISI-8109572);* 7 MONTHS $88,175

THRESHOLD TECHNOLOGY INC

SCOTT, PHILLIPS B; *LOW-COST, HIGH PERFORMANCE SPEECH RECOGNIZER FOR THE HANDICAPPED, PHASE II (ECS-8023276*);* 18 MONTHS $88,024

NEW MEXICO

MAGNASONICS INC

ALERS, GEORGE A; *ELECTROMAGNETIC TRANSDUCERS FOR WELD INSPECTION (MEA-8113691*)*; 6 MONTHS $29,876

MISSION RESEARCH CORPORATION-MISSION RESEARCH CORPORATION NEW MEXICO

ADLER, RICHARD; *HIGH CURRENT ION IMPLANTATION (PHY-8114287*)*; 6 MONTHS $28,960

PRITSKER & ASSOCIATES INC

POLITO, JOSEPH; *DEVELOPMENT AND IDENTIFICATION OF OPERATIONS RESEARCH ALGORTHMS FOR SMALL COMPUTERS (MEA-8113841*)*; 6 MONTHS $28,941

UNIVERSITY OF NEW MEXICO

RADOSEVICH, RAYMOND, AND LEHMANN, WILLIAM L; *UNIVERSITY OF NEW MEXICO TECHNOLOGICAL INNOVATION PROGRAM DEVELOPMENT (ISI-8113643)*; 12 MONTHS $100,000

NEW YORK

COLD SPRING HARBOR LAB OF QUANTITATIVE BIOLOGY

ROBERTS, RICHARD J, AND COMB, DONALD G; *SEARCH FOR NEW RESTRICTION ENDONUCLEASES (PCM-8011709 A01*)*; $96,000

COLUMBIA UNIVERSITY

SCHWARTZ, MISCHA, AND STERN, THOMAS E; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH: DATA NETWORKS AND SATELLITE COMMUNICATIONS (ECS-7925092 A01*)*; 12 MONTHS $93,686

SOMASUNDARAN, PONISSERI, AND HALVERSON, FREDERICK; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: FLOCCULATION OF CLAYS (CPE-8011015*)*; 12 MONTHS $191,507

CORNELL UNIVERSITY

PORTER, RICHARD F, AND KALDOR, ANDREW; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: INFRARED ABSORPTION SPECTROSCOPY OF H_3 AND ITS DEUTERATED FORMS (CHE-7909274 A01*)*; 12 MONTHS $26,250

MCLAFFERTY, FRED W; *COMPUTER IDENTIFICATION OF UNKNOWN MASS SPECTRA (CHE-7910400 A01*)*; 12 MONTHS $76,755

CUNY GRADUATE SCHOOL AND UNIVERSITY CENTER

AUSLANDER, LOUIS; *INDUSTRY/UNIVERSITY COOPERATIVE PROGRAM (IUC): 'THE ALGORITHMS OF DIGITAL SIGNAL PROCESSING' (ECS-7921291 A01*)*; 12 MONTHS $30,041

DEFT LABORATORIES INC

MOYER, ALAN L; *A STUDY OF ROBOT VISION TECHNIQUES USING ACOUSTO-OPTIC IMAGE SENSORS (ECS-8113364*)*; 6 MONTHS $28,542

RENSSELAER POLYTECHNIC INSTITUTE

WOZNY, MICHAEL J; *UNIVERSITY-INDUSTRY COOPERATIVE RESEARCH CENTER IN COMPUTERAIDED DESIGN (ISI-7920240 A02)*; 12 MONTHS $210,000

CHAKRABARTI, ALOK K, AND DIWAN, ROMESH K; *AN EXPLORATORY STUDY OF TECHNOLOGICAL INNOVATION IN ORGANIZATIONS AFTER MERGER/ACQUISITION (ISI-8019780)*; 12 MONTHS $70,581

ROCKEFELLER UNIVERSITY

RIZACK, MARTIN A; *MECHANISM OF LIPOLYTIC HORMONE ACTION (PCM-7923060 A01*)*; 12 MONTHS $32,081

SHAKER RESEARCH CORPORATION

PAN, C H T; *TOPIC NO. 13: SELF FEEDING FLUID-FILM BEARING (MEA-8113899*)*; 6 MONTHS $28,573

STATE UNIVERSITY AT ALBANY

ROHRBAUGH, JOHN, AND QUINN, ROBERT E; *INNOVATION AND ORGANIZATIONAL PERFORMANCE: A STUDY OF THE IMPLEMENTATION AND ROUTINIZATION OF A NEW INFORMATION TECHNOLOGY (ISI-8100384)*; 24 MONTHS $266,649

STATE UNIVERSITY AT BINGHAMTON

KLIR, GEORGE J; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: COMPUTERAIDED ANALYSIS OF RECONSTRUCTABILITY OF MANY-DIMENSIONAL RELATIONS (ECS-7818954 A03*)*; 12 MONTHS $28,500

STATE UNIVERSITY AT BUFFALO

NANCOLLAS, GEORGE H; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: CRYSTALLIZATION AND DISSOLUTION OF FLUORIDE AND PHOSPHATE SALTS (CPE-8005345 A01*)*; 12 MONTHS $65,127

BENENSON, DAVID M, AND FRIND, GERHARD; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: INVESTIGATION OF UPSTREAM NOZZLE EFFECTS ON ARC INTERRUPTION SPEED (CPE-8008101 A01*)*; 12 MONTHS $120,000

STATE UNIVERSITY AT STONY BROOK

VISICH, MARIAN, AND CONTI, JAMES J; *STUDY TO DEFINE A CENTER FOR RESEARCH AND EDUCATION TO ADVANCE TECHNOLOGICAL ENTERPRISE (CREATE) (ISI-8021475)*; 12 MONTHS $99,684

TIME/SPACE SYSTEMS

BATES, JOHN K; *A NEW SIGNAL PROCESSING CONCEPT APPLICABLE TO HEARING (ECS-8114258*)*; 6 MONTHS $30,000

UNIVERSITY OF ROCHESTER

VOELCKER, HERBERT B; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: PADL 2 PROJECT (MEA-7825359 A01*)*; 12 MONTHS $25,000

WAAG, ROBERT C, AND LIU, C N; *INDUSTRY/UNIVERSITY COOPERATIVE: NEW ULTRASOUND TISSUE PARAMETERS FOR IMPROVED IMAGING (ECS-8017683*)*; 12 MONTHS $105,000

NORTH CAROLINA

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

O'NEAL, J B; *PLANNING GRANT FOR UNIVERSITY/INDUSTRY COOPERATIVE RESEARCH CENTER FOR COMMUNICATIONS AND SIGNAL PROCESSING (ISI-8112517*)*; 12 MONTHS $91,338

WEBB FOODLAB INC

WEBB, NEIL B; *INVESTIGATION OF THE EFFECT OF PROCESSING TECHNIQUES ON THE REDUCTION OF CHOLESTEROL AND LIPIDS IN MUSCLE FOODS (CPE-8114394*)*; 6 MONTHS $28,356

OHIO

CASE WESTERN RESERVE UNIVERSITY

HILTNER, ANNE, AND LANDO, JEROME B; *PLANNING STUDY FOR CASE WESTERN RESERVE UNIVERSITY INDUSTRY COOPERATIVE PROGRAM IN POLYMERS (ISI-8014093)*; 12 MONTHS $82,267

HILTNER, ANNE; *CENTER FOR APPLIED POLYMER RESEARCH (ISI-8116103)*; 12 MONTHS $210,000

LAKE SHORE CRYOTRONICS INC

LAWLESS, W N; *QUANTUM FERROELECTRIC PRESSURE SENSOR (DMR-8113317*)*; 6 MONTHS $30,000

OHIO STATE UNIVERSITY

MC CAULEY, ROY B; *ESTABLISHMENT OF A CENTER FOR WELDING RESEARCH (ISI-8018104 A02)*; 12 MONTHS $280,000

TRACTELL INC

JONES, EUGENE E; *TOPIC NO. 9: OPTICAL IMAGE ANALYSIS OF VLSI MICROCIRCUITS (ECS-8113773*)*; 6 MONTHS $27,645

UNIVERSITY OF CINCINNATI

TAYLOR, FRED J; *SIGNAL PROCESSING CONCEPTS AND DEVICE CENTER (ISI-8020634)*; 12 MONTHS $99,571

OKLAHOMA

INDUSTRIAL TECHNOLOGY RES & DEVELOP FDN INC

OLIVER, ROBERT E; *ITRAD/OKLAHOMA STATE UNIVERSITY INNOVATION CENTER (ISI-8116658)*; 12 MONTHS $95,000

SRE INC

SOFER, SAM S; *DEVELOPMENT OF IMMOBILIZED CELL REACTORS FOR SOLVENT PRODUCTION (CPE-8026084*)*; 12 MONTHS $77,775

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

ATKINSON, GORDON, AND THOMAS, DAVID C; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THERMODYNAMICS OF CLEAR BRINE COMPLETION FLUIDS (CPE-8017441*)*; 24 MONTHS $98,845

UNIVERSITY OF TULSA

ARIMAN, TEOMAN, BERGMAN, WERNER, HELFRITCH, DENNIS J, AND RUSEK, STANLEY; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ELECTROSTATICALLY ENHANCED FIBROUS FILTRATION OF AEROSOLS (CPE-8101947*)*; 12 MONTHS $40,000

PENNSYLVANIA

BIOCHEMTECHNOLOGY INC

ZABRISKIE, DANE W; *PRODUCTION OF CELLULOSE POWDERS USING CELLULASE ENZYMES (CPE-8114122*)*; 6 MONTHS $30,000

CARNEGIE-MELLON UNIVERSITY

TUMA, DAVID T; *INVESTIGATION OF ELECTRICAL BREAKDOWN IN VACUUM (ECS-7906417 A01*)*; 12 MONTHS $40,337

WRIGHT, PAUL K, RICHMOND, OWEN, AND DEVENPECK, MARSHALL L; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH PROGRAM: BOUNDARY CONDITIONS IN LARGE-STRAIN STEADY-STATE PLASTIC DEFORMATION PROCESSES (MEA-8011588*)*; 24 MONTHS $157,750

SIRIGNANO, WILLIAM A, AND GOULD, ROBERT K; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: TURBULENT CHEMICALLY REACTING AXISYMMETRIC JETS (CPE-8014661*)*; 12 MONTHS $105,000

CASASSA, EDWARD F, AND BERRY, GUY C; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH: SOLUTIONS OF WATER-SOLUBLE POLYMERS (DMR-8023213*)*; 12 MONTHS $31,800

CENTER FOR ENTREPRENEURL DEVELOPMENT

BAUMANN, DWIGHT M; *INNOVATION CENTER ALTERNATIVES ANALYSIS (ISI-8117577)*; 12 MONTHS $111,599

CERAMIC FINISHING COMPANY

KIRCHNER, HENRY P; *GRAIN BOUNDARY PHASES IN STRUCTURAL CERAMICS (DMR-8113284*)*; 6 MONTHS $29,592

CONSAD RESEARCH CORPORATION

DOCTORS, SAMUEL I; *EVALUATION OF THE EXPERIMENTAL PHASE OF THE URBAN TECHNOLOGY SYSTEM: PHASE II (ISP-7827101 A07*);* $31,480

DYNA EAST CORPORATION

CARLEONE, JOSEPH; *NUMERICALLY CONTROLLED PRECISION ORBITAL FORGING PROCESS (MEA-8115012*);* 18 MONTHS $200,000

LEHIGH UNIVERSITY

LEVY, EDWARD K, AND KADAMBI, VEDANTH; *HEAT TRANSFER IN ROTATING AND CURVED DUCTS (MEA-7923751 A01*);* 12 MONTHS $87,000

WALKER, J D, AND SMITH, CHARLES R; *INDUSTRY/UNIVERSITY COOPERATIVE GRANT: SEPARATED FLOW EFFECTS ON THE TURBINE BLADE HEAT TRANSFER (MEA-8016829*);* 12 MONTHS $59,832

MATERIALS SCIENCES CORPORATIONS

DOW, NORRIS F; *STUDIES OF WOVEN FABRIC REINFORCED COMPOSITES FOR AUTOMOTIVE APPLICATIONS (CPE-8113749*);* 6 MONTHS $30,000

PENNSYLVANIA STATE UNIVERSITY

VANNICE, M ALBERT, AND GEOFFROY, GREGORY L; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH: THE PREPARATION, SINTERING, AND CATALYTIC BEHAVIOR OF SUPPORTED SILVER CATALYSTS (CPE-8019968*);* 12 MONTHS $71,833

UNIVERSITY OF PITTSBURGH

LINDT, J T; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: REACTIVE PROCESSING OF POLYMERS IN SINGLE-SCREW EXTRUDER (CPE-8007184 A01*);* 12 MONTHS $28,566

HERCULES, DAVID M; *INDUSTRY/UNIVERSITY COOPERATIVE ACTIVITY: INVESTIGATIONS INVOLVING A NOVEL CLASS OF SUPPORTED METAL CATALYSTS (CHE-8020001*);* 12 MONTHS $152,760

SOFFA, WILLIAM A, AND BRENNER, S S; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ATOM PROBE FIELD ION MICROSCOPY STUDIES OF CONTINUOUS TRANSFORMATIONS IN ALLOYS (DMR-8022225*);* 12 MONTHS $75,400

PUERTO RICO

UNIVERSITY OF PUERTO RICO, RIO PIEDRAS

BLUM, LESSER; *STATISTICAL MECHANICS OF THE ELECTRIC DOUBLE LAYER (CHE-8001969 A01*);* 9 MONTHS $52,000

RHODE ISLAND

BROWN UNIVERSITY

SWEIGART, DWIGHT A, AND ITTEL, SREPHEN D; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: NUCLEOPHILIC ADDITION TO CYCLIC HYDROCARBONS (CHE-8023964*);* 12 MONTHS $35,000

SOLAMAT INC

ROESSLER, BARTON; *TOPIC NO. 13: BEARING STRUCTURES FABRICATED FROM ARC PLASMA SPRAYED LAYERS COATED WITH SOLID FILM LUBRICANTS (MEA-8114267*);* 6 MONTHS $30,000

UNIVERSITY OF RHODE ISLAND

ESTRIN, JOSEPH, AND TADROS, MAHER K; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: MECHANISMS OF GROWTH AND MORPHOLOGICAL STABILITY OF SPARINGLY SOLUBLE SALTS (CPE-80181;9 A01*);* 12 MONTHS $58,704

SOUTH CAROLINA

RESEARCH PLANNING INSTITUTE INC

SCOTT, GEOFFREY I; *EXAMINATION OF FACTORS AFFECTING THE SURVIVAL OF OYSTERS INFECTED WITH THE FUNGUS LABYRINTHOMYXA MARINUM & APPLICABILITY OF THESE FACTORS TO IMPROVED POND AQUACULTURE (OCE-8114489*);* 6 MONTHS $26,752

TENNESSEE

COMPUTATIONAL MECHANICS CONSULTANTS INC

MANHARDT, PAUL D; *TOPIC NO. 9: ARRAY PROCESSING OF THE THREE-DIMENSIONAL NAVIER-STOKES EQUATIONS (ECS-8114106*);* 6 MONTHS $28,928

CRC WELDING SYSTEMS INC

COOK, GEORGE E; *RESEARCH ON ADAPTIVE ARC TRACKING FOR WELDING, PHASE II (MEA-8114542*);* 12 MONTHS $83,018

UNIVERSITY OF TENNESSEE AT KNOXVILLE

REMENYIK, CARL J; *INDUSTRY-UNIVERSITY COOPERATIVE RESEARCH: DYNAMICS OF BUBBLES BENEATH DOWNWARD-FACING SURFACES (MEA-8023833*);* 24 MONTHS $74,336

TEXAS

SCIENTIFIC MEASUREMENT SYSTEMS INC

MORGAN, IRA LON; *TOMOGRAPHIC ASSESSMENT TECHNIQUES FOR EARTHQUAKE ENGINEERING (CEE-8113999*);* 6 MONTHS $18,796

MORGAN, IRA LON; *SPATIAL RESOLUTION IN INDUSTRIAL TOMOGRAPHY (PHY-8114001*);* 6 MONTHS $28,552

TEXAS A & M UNIVERSITY

HALL, KENNETH R, AND KREGLEWSKI, ALEKSANDE; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: DEVELOPMENT OF NOVEL EQUATIONS OF STATE (ISI-8019541*);* 24 MONTHS $63,546

UNIV OF TEXAS AT AUSTIN

HURLEY, LAURENCE H; *BIOSYNTHETIC STUDIES ON THE PYRROLO(1,4)BENZODIAZEPINE & LINCOMYCIN ANTIBIOTICS (PCM-8111524*);* 24 MONTHS $61,510

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

JACKSON, ROY, AND GWYN, JOHN E; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THE MECHANICS OF FLOW OF PARTICULATE MEDIA (CPE-8011268*);* 12 MONTHS $47,658

UTAH

BONNEVILLE SCIENTIFIC

GRAHN, ALLEN R; *ACOUSTIC PROTEIN SEPARATION (CPE-8114007*);* 6 MONTHS $29,995

NATIVE PLANTS INC

BOLLINGER, WILLIAM H; *A MYCORRHIZAL INOCULATED CONTAINERIZED PLANT GROWING SYSTEM, PHASE II (PCM-8114635*);* 24 MONTHS $177,415

PLANT RESOURCES INSTITUTE

MCKELL, CYRUS M; *IN VITRO PRODUCTION OF SALTBUSH FOR REVEGETATION AND RANGE IMPROVEMENT (PCM-8113744*);* 6 MONTHS $29,999

TERRA TEK INC

HENDRICKSON, ROBERT R; *CORRELATION OF THE MATERIAL PROPERTIES OF TUNGSTEN CARBIDE WITH DRILLING PERFORMANCE IN THE FIELD (DMR-7713273 A04*);* 3 MONTHS $13,530

UNIVERSITY OF UTAH

BROWN, WAYNE S, AND JOHNSON, RAMON E; *UTAH INNOVATION CENTER (ISI-8104604);* 12 MONTHS $262,440

BROWN, WAYNE S; *1981 INDUSTRIAL PROGRAM GRANTEE CONFERENCE (ISI-8108727*);* 7 MONTHS $56,640

VIRGINIA

ALM INC

FRIZZELL, WILLIAM F; *INCREASING LATENT FINGERPRINT (FLUORESCENCE BY MEANS OF AN ACOUSTO-OPTIC OUTPUT COUPLED (CAVITY-DUMPED) VARIABLE PULSE WIDTH ARGON-ION LASER (DMR-8114154*);* 6 MONTHS $29,581

AMERICAN RESEARCH INSTITUTE

SCHEIRER, MARY ANN; *METHODOLOGICAL ISSUES IN THE MEASUREMENT OF IMPLEMENTATION OF TECHNOLOGICAL INNOVATIONS (ISI-8022612);* 12 MONTHS $49,363

KAPPA SYSTEMS INC

DARNELL, WILLIAM G; *CONTINUATION AND IMPROVEMENT OF THE EXTERNAL PRODUCT EVALUATION SYSTEM (29A-8007241 A04*);* 12 MONTHS $15,200

SYSTEMS ENGINEERING FOR POWER INC

FINK, LESTER H, KWATNY, HARRY G, AND BLANKENSHIP, GILMER L; *VARIABLE STRUCTURE SERVOMECHANISMS (ECS-8113891*);* 6 MONTHS $29,853

UNIVERSITY OF VIRGINIA

JOHNSON, ROBERT E; *EROSION OF CONDENSED GASES BY FAST IONS: PHYSICAL MECHANISM AND ASTROPHYSICAL IMPLICATIONS (AST-7912690 A01*);* 12 MONTHS $27,700

WASHINGTON

BOEING ENGINEERING AND CONSTRUCTION

LYTLE, FARREL W, AND SANDSTROM, DONALD R; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: EXAFS INVESTIGATION OF SUPPORT EFFECTS, CHEMISORPTION AND SURFACE DISORDER IN CATALYSIS (CHE-7918084 A01*);* 12 MONTHS $60,813

FLOW INDUSTRIES INC

BUTLER, GEORGE W; *ENGINEERING DEVELOPMENT OF A CLEAN BURNING RESIDENTIAL WOOD STOVE (CPE-8114020*);* 6 MONTHS $28,909

O'HANLON, THOMAS; *PHASE I SMALL BUSINESS INNOVATIVE RESEARCH: FEASIBILITY STUDY OF A NOVEL ROCK TUNNELING AND EXCAVATION METHOD (CEE-8114486*);* 6 MONTHS $28,700

HASHISH, MOHAMED; *A MODELING STUDY OF ABRASIVE-WATERJET METALS CUTTING (MEA-8114500*);* 6 MONTHS $28,686

MATHEMATICAL SCIENCES NORTHWEST INC

CRAWFORD, EDWARD A; *SOFT X-RAY SOURCE FOR MICROLITHOGRAPHY (ECS-8113840*);* 6 MONTHS $29,986

UNIVERSITY OF WASHINGTON

WISSMAR, ROBERT C, EGGERS, DOUGLAS M, AND SIMENSTAD, CHARLES A; *OPTIMAL MANAGEMENT OF CHUM SALMON BASED ON ESTUARINE AND NEARSHORE CARRYING CAPACITY FOR OUTMIGRATING JUVENILES IN HOOD CANAL (PCM-8008637 A01*);* 12 MONTHS $80,352

SEFERIS, JAMES C, AND VASSILATOS, GEORGE; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY. A STRUCTURAL APPROACH TO CRYSTALLINE POLYMER ANISOTROPIC SOLID-STATE PROPERTIES (DMR-8113239*);* 15 MONTHS $30,000

WEST VIRGINIA

HUEY CORPORATION

CHEN, L H; *BASIC MECHANISM TO ACHIEVE CLEAN COMBUSTION OF OIL SHALE IN FLUIDIZED BEDS (CPE-8113362*);* 6 MONTHS $29,359

WEST VIRGINIA UNIVERSITY

WEN, C Y; *PLANNING GRANT FOR UNIVERSITY/INDUSTRY FLUIDIZED BED COOPERATIVE RESEARCH CENTER (ISI-8115302*);* 12 MONTHS $85,837

WISCONSIN

LAKESHORE GROUP LTD

KOMIVES, JOHN L; *SUPPORT SERVICES FOR A SERIES OF SMALL BUSINESS CONFERENCES (291-8101825);* 12 MONTHS $26,000

TECHNOLOGY TRANSFER CONCEPTS INTERNATIONAL

CHATTERJI, ARUN K; *NATURAL GUM SUBSTITUTE FOR KARAYA GUM FOR OSTOMY PRODUCTS (ECS-8114235*);* 6 MONTHS $30,000

UNIVERSITY OF WISCONSIN-MADISON

LAGALLY, MAX G; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH CRYSTALLOGRAPHIC DETERMINATION OF LIMITATIONS TO ORDER IN SURFACES AND OVERLAYERS (DMR-7825754 A02*);* 12 MONTHS $29,000

CHANG, Y AUSTIN, AND MARSHALL, DENNIS; *INDUSTRY/ UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: PHASE INVESTIGATION OF LEAD-TIN-CALCIUM ALLOYS (DMR-7908333 A01*);* 12 MONTHS $42,100

LUND, DARYL B, AND CHAPMAN, THOMAS W; *INDUSTRY/UNIVERSITY COOPERATIVE ACTIVITY: FOULING OF HEAT TRANSFER SURFACES IN FOOD PROCESSING SYSTEMS (CPE-8020627*);* 12 MONTHS $45,000

UNIVERSITY OF WISCONSIN-MILWAUKEE

LEVY, MOISES; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH: INVESTIGATIONS OF MAGNETIC FILMS FOR DEVELOPMENT OF VARIABLE AMPLITUDE AND FREQUENCY SAW FILTERS (ECS-8001773 A01*);* 12 MONTHS $84,987

POLICY RESEARCH AND ANALYSIS

CALIFORNIA

SRI INTERNATIONAL

BEATTY, WILLIAM B, AND DOLPHIN, LAMBERT T; *THE IMPACT OF REGULATORY POLICIES, RESOURCES DEPLETION AND FOREIGN COMPETITION ON NONFUEL MINERALS EXPLORATION IN THE UNITED STATES: A PRELIMINARY INQUIRY (PRA-7920572);* 4 MONTHS $29,892

GREEN, DONALD S; *ASSESSMENT OF U. S. GOVERNMENT EXPORT FINANCING OF HIGH TECHNOLOGY PRODUCTS: PHASE I (PRA-8019783);* 13 MONTHS $79,871

GREEN, DONALD S; *ASSESSMENT OF U.S. GOVERNMENT EXPORT FINANCING OF HIGHTECHNOLOGY PRODUCTS (PRA-8019783 A01);* $7,800

STANFORD UNIVERSITY

FLAHERTY, M THERESE, AND TEECE, DAVID J; *PRIVATE RETURNS FROM INTERNATIONAL TECHNOLOGY TRANSFER: AN EXPLORATORY INVESTIGATION (PRA-7821837 A01);* 6 MONTHS $16,748

UNIVERSITY OF CALIFORNIA, BERKELEY

LA PORTE, TODD R; *ASSESSMENT OF ALTERNATIVE ENERGY TECHNOLOGIES: AN INSTITUTIONAL ANALYSIS (PRA-8014195 A01);* $155,595

CRAIK, KENNETH H; *PERCEPTIONS OF DECISION PROCEDURES FOR MANAGING TECHNOLOGICAL HAZARD (PRA-8020017);* 24 MONTHS $258,612

WILTON, PETER C, AND MYERS, JOHN G; *RESEARCH ON THE UTILIZATION OF TECHNOLOGY ASSESSMENT INFORMATION (PRA-8110052*);* 18 MONTHS $89,008

UNIVERSITY OF CALIFORNIA, SAN DIEGO

GROBSTEIN, CLIFFORD; *AN ASSESSMENT OF THE IMPACTS OF NEWER GENETIC AND DEVELOPMENTAL KNOWLEDGE (PRA-8020679*);* 36 MONTHS $44,000

UNIVERSITY OF SOUTHERN CALIFORNIA

EDWARDS, WARD, AND WINTERFELDT, DETLOF V; *TOWARD DEVELOPING METHODS FOR UNDERSTANDING PUBLIC RESPONSES TO RISKY TECHNOLOGIES (PRA-8108638);* 12 MONTHS $22,970

WOODWARD-CLYDE CONSULTANTS INC

KEENEY, RALPH L; *RISK EVALUATION AND POLICY (PRA-8107319*);* 15 MONTHS $50,000

CONNECTICUT

YALE UNIVERSITY

STOLWIJK, JAN A, GOULD, LEROY C, AND DELUCA, DONALD R; *PUBLIC PERCEPTIONS OF TECHNOLOGICAL RISKS: A METHODOLOGICAL STUDY (PRA-8014194);* 10 MONTHS $158,509

LEVIN, RICHARD C, AND PECK, MERTON J; *DYNAMIC COMPETITION: A PROGRAM OF RESEARCH ON TECHNOLOGICAL CHANGE AND MARKET STRUCTURE (PRA-8019779*);* 12 MONTHS $124,978

DISTRICT OF COLUMBIA

BROOKINGS INSTITUTION

LAWRENCE, ROBERT; *U.S. POLICIES IN RESPONSE TO GROWING INTERNATIONAL TRADE COMPETITIVENESS (PRA-8116455);* 9 MONTHS $75,000

BRYANT, RALPH; *U.S. OPTIONS FOR MODIFYING THE INTERNATIONAL MONETARY SYSTEM (PRA-8116456);* 9 MONTHS $75,000

GEORGETOWN UNIVERSITY

HUFBAUER, GARY C; *INTERNATIONAL ECONOMIC POLICY 1981: ACTIONS AND ASPIRATIONS (PRA-8116443);* 8 MONTHS $75,000

NATIONAL ACADEMY OF SCIENCES

GOSLIN, DAVID A; *DEVELOPMENT OF STRATEGIES FOR A PROGRAM OF SYSTEMATIC RESEARCH TO IMPROVE RISK ANALYSIS AND DECISIONMAKING (PRA-7923898 A02);* 6 MONTHS $17,100

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

MILLER, HUGH H; *STUDIES ON THE INFLUENCE OF TECHNOLOGY IN DETERMINING INTERNATIONAL INDUSTRIAL COMPARATIVE ADVANTAGE (PRA-7915279 A01);* 6 MONTHS $31,087

PHILLIPS, MARLENE R; *STUDIES ON THE INFLUENCE OF TECHNOLOGY IN DETERMINING INTERNATIONAL COMPARATIVE ADVANTAGE (PRA-8114569);* 12 MONTHS $139,834

HAWAII

CENTER FOR CULTURAL&TECH INTERCHG EAST&WEST-EAST-WEST CENTER COMMUNICATION INSTITUTE

RANDOLPH, ROBERT, BROWN, HARRISON, AND KOPPEL, BRUCE; *A TECHNOLOGY ASSESSMENT OF BIOLOGICAL NITROGEN FIXATION (PRA-8021354);* 12 MONTHS $110,294

MARYLAND

CAPITAL SYSTEMS GROUP INC

CLANSKY, KENNETH B; *SUPPORT SERVICES FOR NSF RESEARCH INFORMATION PROCESSING AND DISSEMINATION PROGRAMS (12M-8020049 A01*);* 4 MONTHS $21,681

MASSACHUSETTS

BOSTON UNIVERSITY

BARAM, MICHAEL S; *ALTERNATIVES TO GOVERNMENT REGULATION FOR THE MANAGEMENT OF RISKS UNDER CONDITIONS OF SCIENTIFIC AND TECHNICAL UNCERTAINTY (PRA-8117640);* 12 MONTHS $94,781

CLARK UNIVERSITY

KATES, ROBERT W; *METHODS FOR IMPROVING PUBLIC POLICY FOR TECHNOLOGICAL HAZARD MANAGEMENT (PRA-7911934 A01);* $12,504

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

ASHFORD, NICHOLAS A; *RELATIONSHIPS BETWEEN ASPECTS OF PHARMACEUTICAL REGULATION, INNOVATION, AND THERAPEUTIC BENEFITS, PHASE II (PRA-8018596);* 18 MONTHS $151,942

ECKAUS, RICHARD S, AND LESSARD, DONALD R; *U.S. OPTIONS FOR MODIFYING THE INTERNATIONAL MONETARY SYSTEM (PRA-8116426);* 8 MONTHS $74,402

NATIONAL BUREAU OF ECONOMIC RESEARCH INC

GRILICHES, ZVI, AND NADIRI, M ISHAQ; *R & D, PATENTS AND THE PRIVATE AND SOCIAL VALUE OF KNOWLEDGE (PRA-8108635*);* 12 MONTHS $290,791

RICHARDSON, J DAVID, AND BRANSON, WILLIAM H; *CAPACITY, COMPETITIVENESS, AND CAPITAL MOBILITY IN THE WORLD ECONOMY: CHALLENGES TO U.S. POLICY (PRA-8116459);* 9 MONTHS $74,948

NORTHEASTERN UNIVERSITY

BALACHANDRA, RAMAIYA; *FACTORS EXPLAINING DECISIONS TO CONTINUE OR TERMINATE R & D PROJECTS (PRA-8105585);* 12 MONTHS $115,202

MICHIGAN

UNIVERSITY OF MICHIGAN-ANN ARBOR

STERN, ROBERT M; *THE UNITED STATES IN THE WORLD ECONOMY: ADAPTATION TO CHANGES IN TRADE, TRADE POLICIES, AND TECHNOLOGY TRANSFER (PRA-8116287);* 8 MONTHS $75,000

MISSOURI

MIDWEST RESEARCH INSTITUTE

LAWLESS, EDWARD W; *THE ASSESSMENT OF METHODOLOGIES FOR COMPARING THE RISKS OF SELECTED TECHNOLOGIES (PRA-8018868);* 18 MONTHS $220,700

NEW JERSEY

COMPUTER HORIZONS INC

CARPENTER, MARK P, NARIN, FRANCIS, AND FRAME, J D; *TEN YEAR TRENDS IN U. S. TECHNOLOGICAL DEPENDENCE ON FOREIGN SCIENCE AND TECHNOLOGY AS INDICATED BY REFERENCING FROM U. S. PATENTS, PHASE I (PRA-8017357);* 4 MONTHS $15,190

CARPENTER, MARK P; *TEN YEAR TRENDS IN U.S. TECHNOLOGICAL DEPENDENCE ON FOREIGN SCIENCE AND TECHNOLOGY AS INDICAT-*

ED BY REFERENCING FROM U.S. PATENTS (PRA-8118601); 2 MONTHS $15,329

ECON INC

HAZELRIGG, GEORGE A; *LESSONS FROM THE DEVELOPMENT AND COMMERCIALIZATION OF LARGESCALE TECHNOLOGIES APPLIED TO REACTOR SAFETY, SYNFUELS AND FUSION (PRA-8110724);* 13 MONTHS $149,964

PRINCETON UNIVERSITY

KENEN, PETER B; *U.S. OPTIONS FOR MODIFYING THE INTERNATIONAL MONETARY SYSTEM (PRA-8116473);* 8 MONTHS $73,097

NEW YORK

AMERICAN SOCIETY OF MECHANICAL ENGINEERS

FISHMAN, BERNARD; *THE IMPACTS OF MATERIALS SUBSTITUTION ON ENERGY CONSERVATION, ENVIRONMENTAL GOALS, AND RESOURCES RECYCLING (PRA-8003174);* 15 MONTHS $55,200

STATE UNIVERSITY AT STONY BROOK

TUCKER, ALAN C, TEWARSON, REGINALD P, AND PROVAN, J SCOTT; *ENERGY ECONOMY MODEL LINKAGE AND ASSESSMENT (PRA-8023708);* 12 MONTHS $108,625

UNIVERSITY OF ROCHESTER-SCHOOL OF MEDICINE AND DENTISTRY

JACOBSON, LOUIS S; *LABOR ADJUSTMENT TO TECHNICAL CHANGE: A MULTI-INDUSTRY STUDY (PRA-7830297 A02);* 10 MONTHS $196,240

OKLAHOMA

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

MALECKI, EDWARD J; *FEDERAL AND INDUSTRIAL R & D: LOCATIONAL STRUCTURES, ECONOMIC EFFECTS AND INTERRELATIONSHIPS (PRA-8019861);* 19 MONTHS $46,758

PENNSYLVANIA

BUCKNELL UNIVERSITY

LESHNER, ALAN I; *IPA MOBILITY ASSIGNMENT (ALAN LESHNER) (PRA-8020562 A01);* 10 MONTHS $1,370

CARNEGIE-MELLON UNIVERSITY

RUBIN, EDWARD S, LINCOLN, DAVID R, AND DUNCAN, GEORGE T; *EXTENSION OF MULTI-ATTRIBUTE UTILITY THEORY TO THE ASSESSMENT OF ENVIRONMENTAL AND ECONOMIC TRADEOFFS IN REGULATORY POLICIES FOR SYNTHETIC FUEL PROCESSES (PRA-8113523*);* 16 MONTHS $76,444

PENNSYLVANIA STATE UNIVERSITY

VOGELY, WILLIAM A; *INTEGRATING SCIENCE AND TECHNOLOGY INFORMATION INTO THE U.S. MATERIALS POLICY DECISION PROCESS: AN ASSESSMENT OF ALTERNATIVES (PRA-8017253);* 24 MONTHS $119,657

UNIVERSITY OF PENNSYLVANIA-WHARTON SCHOOL OF FINANCE AND COMMERCE

GUTTENTAG, JACK M, AND HERRING, RICHARD J; *PUBLIC POLICY TOWARD INTERNATIONAL BANKING ACTIVITY (PRA-8116466);* 9 MONTHS $74,854

UNIVERSITY OF PITTSBURGH

NEHNEVAJSA, JIRI; *IPA MOBILITY ASSIGNMENT (PRA-7925730 A02);* 13 MONTHS $59,699

TEXAS

TECHNOLOGY FUTURES INC

VANSTON, JOHN H, FREDERICK, DAVID O, AND ROBERTS, KENNETH D; *A TECHNOLOGY ASSESSMENT OF ALTERNATE MEANS FOR MEETING ANTICIPATED DEMANDS FOR ELECTRIC POWER IN THE U.S.A. (PRA-8019781*);* 16 MONTHS $288,650

VIRGINIA

KAPPA SYSTEMS INC

DARNELL, WILLIAM C; *CONTINUATION AND IMPROVEMENT OF THE EXTERNAL PRODUCT EVALUATION SYSTEM (EPA-8007241 A04*);* 12 MONTHS $63,333

MITRE CORPORATION-MITRE CORPORATION-VIRGINIA

NEUWORTH, MARTIN; *POLICY IMPLICATIONS OF PROVIDING FEDERAL SUBSIDY FOR HIGH VALUE ADDED CHEMICALS FROM BIOMASS (PRA-8023708);* 12 MONTHS $153,862

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

BALDWIN, ROBERT E; *U.S. POLICIES IN RESPONSE TO GROWING INTERNATIONAL TRADE COMPETITIVENESS (PRA-8116448);* 8 MONTHS $74,798

SCIENCE RESOURCES STUDIES

CONNECTICUT

FUTURES GROUP INC

GORDON, THEODORE J; *FURTHER RESEARCH INTO TECHNOLOGY OUTPUT MEASURES (SRS-8104940);* 12 MONTHS $89,218

DISTRICT OF COLUMBIA

CONFERENCE BOARD OF THE MATHEMATICAL SCIENCES

BOTTS, TRUMAN A; *EARLY CAREERS IN THE COMPUTER AND MATHEMATICAL SCIENCES-A STUDY OF BACHELOR'S AND MASTER'S-DEGREE RECIPIENTS OF THE 1970'S (SRS-8105118);* 12 MONTHS $34,500

MATHEMATICA-MATHEMATICA INC-WASHINGTON D C

EDSON, DAVID; *A GROSS FLOW MODEL FOR FORECASTING THE SCIENCE AND ENGINEERING LABOR FORCE (SRS-8023327 A02);* 12 MONTHS $143,784

EDSON, DAVID; *INCORPORATION OF THE 1978 AND 1979 NEW ENTRANTS SAMPLE INTO THE 1980 S/E ESTIMATES AND REFINEMENT OF THE SETAB MODEL (SRS-8023327 A03);* 2 MONTHS $24,936

MOSHMAN ASSOCIATES INC

NOZICKA, GEORGE J; *DATA PROCESSING OF FOUR NSF UNIVERSITY SURVEY SYSTEMS, FY 1981 (SRS-7828113 A07);* 12 MONTHS $227,931

MOSHMAN, JACK; *DATA PROCESSING FOR FEDERAL FUNDS FOR RESEARCH AND DEVELOPMENT, FISCAL YEARS 1980, 1981, AND 1982, VOLUME XXX (SRS-8014710 A01);* 12 MONTHS $41,913

TREVVETT, DAVID E; *STRATEGIES FOR DEVELOPING ESTIMATES OF ACADEMIC BASIC RESEARCH EXPENDITURES BY FIELD OF SCIENCE AND ENGINEERING (SRS-8114581);* 9 MONTHS $93,828

NATIONAL ACADEMY OF SCIENCES

MAXFIELD, BETTY D; *1981 SURVEY OF DOCTORATE RECIPIENTS IN SCIENCE/ENGINEERING, AND THE HUMANITIES (SRS-7828100 A05);* $265,200

SCIENTIFIC MANPOWER COMMISSION

VETTER, BETTY M; *A GUIDE TO DATA ON SCIENTIFIC AND ENGINEERING PERSONNEL IN THE UNITED STATES (SRS-8105117);* 18 MONTHS $76,000

GEORGIA

GEORGIA INSTITUTE OF TECHNOLGY MAIN CAMPUS

CHUBIN, DARYL E; *INDICATORS OF INTERDISCIPLINARY RESEARCH (SRS-8105666);* 12 MONTHS $74,385

ILLINOIS

NORTHERN ILLINOIS UNIVERSITY

MILLER, JON D; *ATTENTIVE PUBLIC AND NONGOVERNMENTAL LEADERSHIP ATTITUDES TOWARD SCIENCE AND TECHNOLOGY (SRS-8105662);* 15 MONTHS $125,000

KENTUCKY

UNIVERSITY OF KENTUCKY

BUSCH, LAWRENCE M; *THE RELATIONSHIP OF AGRICULTURAL RESEARCH AND DEVELOPMENT TO SELECTED SOCIOECONOMIC CHANGES IN THE FARM SECTOR (SRS-8104935);* 24 MONTHS $96,770

MARYLAND

BUREAU OF THE CENSUS

LEVINE, DANIEL B; *UPDATING THE HISTORICAL INDUSTRY R&D TIME SERIES (SRS-8107698);* 12 MONTHS $25,000

LEVINE, DANIEL B; *SURVEY OF RESEARCH AND DEVELOPMENT IN INDUSTRY (SRS-8107699);* 12 MONTHS $260,000

LEVINE, DANIEL B; *IMPLEMENTATION OF SURVEY DESIGN PLAN FOR 1982 POSTCENSAL SURVEY OF SCIENTISTS AND ENGINEERS (SRS-8110921);* 12 MONTHS $700,000

NATIONAL INSTITUTES OF HEALTH

BRUNELLE, ROBERT H; *AMENDMENT TO INTERAGENCY AGREEMENT NSF CA61 (SRS-7101607 A13);* 12 MONTHS $7,500

UNIVERSITY OF MARYLAND, COLLEGE PARK

DUNSON, BRUCE H; *IPA MOBILITY ASSIGNMENT (BRUCE H DUNSON) (SRS-8119390);* 12 MONTHS $36,722

MASSACHUSETTS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

HILL, CHRISTOPH T; *ASSESSING THE FEASIBILITY OF NEW SCIENCE AND TECHNOLOGY INDICATORS (SRS-8111862);* 8 MONTHS $79,016

NATIONAL BUREAU OF ECONOMIC RESEARCH INC

GRILICHES, ZVI, AND NADIRI, M ISHAQ; *R & D, PATENTS AND THE PRIVATE AND SOCIAL VALUE OF KNOWLEDGE (PRA-8108635*);* 12 MONTHS $20,000

NEW JERSEY

COMPUTER HORIZONS INC

CARPENTER, MARK P; *DEVELOPMENT OF REFINED INDICATORS OF TECHNOLOGICAL INNOVATION, USING EXAMINERS CITATIONS IN THE PATENT FILE (SRS-8019254 A02);* 12 MONTHS $105,569

NARIN, FRANCIS; *CROSS NATIONAL BIBLIOMETRIC COMPARISONS (SRS-8104942);* 12 MONTHS $71,092

NEW YORK

AMERICAN ASSOCIATION ENGINEERS SOCIETY

SHERIDAN, PATRICK J; *THE ENGINEERING DEGREE CONFERRAL PROCESS ANALYSES AND PROJECTIONS (SRS 8104938)*; 12 MONTHS $93,911

CORNELL UNIVERSITY-CORNELL UNIVERSITY - STATE

QUESTER, ALINE O; *COMPARISONS OF TASKS AND EARNINGS OF SCIENTISTS AND ENGINEERS (SRS 8104935)*; 15 MONTHS $72,445

VIRGINIA

KAPPA SYSTEMS INC

DARNELL, WILLIAM G; *CONTINUATION AND IMPROVEMENT OF THE EXTERNAL PRODUCT EVALUATION SYSTEM (29A 8007241 A04*)*; 12 MONTHS $7,600

MARCOM ASSOCIATES INC

MULLOY, ANGELA; *EDITORIAL AND ASSOCIATED SERVICES FOR THE PREPARATION OF SCIENCE RESOURCES STUDIES PUBLICATIONS (SRS-8115453)*; 12 MONTHS $14,230

INTERGOVERNMENTAL SCIENCE AND PUBLIC TECHNOLOGY

ARIZONA

ARIZONA OFF OF ECONOMIC PLANNING & DEVELOPMENT

LANDRY, LAWRENCE; *ARIZONA STATE SCIENCE, ENGINEERING AND TECHNOLOGY PROCESS (ISP-8019800 A01)*; 6 MONTHS $25,000

ARKANSAS

ARKANSAS STATE GENERAL ASSEMBLY

GARNETT, PHYLLIS; *THE ARKANSAS LEGISLATIVE PROJECT (ISP-7912925 A01)*; 12 MONTHS $55,400

CALIFORNIA

ASSOCIATION OF BAY AREA GOVERNMENTS

GOLDMAN, ROBERT; *IPA MOBILITY ASSIGNMENT (ROBERT E. GOLDMAN) (ISP-8026082 A01*)*; $12,600

CALIFORNIA STATE ASSEMBLY-OFFICE OF RESEARCH

FELTE, KEITH; *THE CALIFORNIA LEGISLATIVE INFORMATION MANAGEMENT SYSTEM (ISP-8005190 A02*)*; 6 MONTHS $19,704

SOUTHWEST INNOVATION GROUP INC

MURDOCH, KEITH A; *IMPLEMENTATION OF A REGIONAL SCIENCE AND TECHNOLOGY NETWORK (ISP-7917656 A02)*; 3 MONTHS $97,750

COLORADO

NATIONAL CONFERENCE OF STATE LEGISLATURES

MACKEY, EARL S, AND PRESNAL, BILL; *SCIENCE AND TECHNOLOGY IN STATE LEGISLATURES (ISP-7717799 A03)*; 12 MONTHS $86,000

MACKEY, EARL S, AND PRESNAL, BILL; *SCIENCE AND TECHNOLOGY IN STATE LEGISLATURES (ISP-7717799 A04*)*; $68,997

MACKEY, EARL S; *STRENGTHENING OF MODEL INTERSTATE SCIENTIFIC AND TECHNICAL INFORMATION CLEARINGHOUSE (MISTIC) (29P-8101826 A01)*; $10,000

DELAWARE

DELAWARE GENERAL ASSEMBLY

MCGINNES, F EARL; *DELAWARE LEGISLATIVE SCIENCE ADVISORY PROJECT (ISP-8018605)*; 8 MONTHS $20,000

DISTRICT OF COLUMBIA

AMERICAN ASSOCIATION FOR ADVANCEMENT SCIENCE

RATCHFORD, J THOMAS; *WORKSHOP ON TASK FORCE STUDIES FROM THE INTERGOVERNMENTAL SCIENCE, ENGINEERING, AND TECHNOLOGY ADVISORY PANEL (ISETAP) (ISP-7824464 A05)*; 6 MONTHS $14,560

COUNCIL OF STATE GOVERNMENTS-NATIONAL ASSOCIATION OF ATTORNEYS GENERAL

MARVIN, RAYMOND; *IMPROVING THE UTILIZATION OF SCIENTIFIC AND TECHNICAL RESOURCES BY THE STATES' ATTORNEYS GENERAL (ISP-8018165 A01)*; 6 MONTHS $25,000

DEPARTMENT OF ARMY

BURROWS, W; *WATER REUSE SYMPOSIUM II (ISP-8108152)*; 12 MONTHS $10,000

HAROLD F WISE, OFFICE OF

WISE, HAROLD F; *THE DEVELOPMENT OF JOINT FEDERAL RESEARCH AND DEVELOPMENT PROCESSES RESPONDING TO STATE AND LOCAL NEEDS (ISP-7917531 A03)*; 16 MONTHS $51,892

NATIONAL GOVERNORS' ASSOCIATION-COUNCIL OF STATE PLANNING AGENCIES

WISE, ROBERT N; *STATE PLANNING AND POLICY DEVELOPMENT TOOLS AND TECHNIQUES (ISP-7927058 A02)*; 6 MONTHS $65,760

WISE, ROBERT N; *STATE PLANNING AND POLICY DEVELOPMENT TOOLS AND TECHNIQUES (ISP-7927058 A03)*; 3 MONTHS $40,000

WAKELEY, BERTRAM; *IPA MOBILITY ASSIGNMENT (ISP-8017394 A02)*; $5,633

NATIONAL GOVERNORS' ASSOCIATION

BRIZIUS, JACK A; *SCIENCE AND TECHNOLOGY IN THE STATE EXECUTIVE BRANCH (ISP-7720657 A05)*; 7 MONTHS $34,275

FARBER, STEPHEN B; *SCIENCE AND TECHNOLOGY IN THE STATE EXECUTIVE BRANCH (ISP-7720657 A06)*; 6 MONTHS $49,990

FARBER, STEPHEN B; *SCIENCE AND TECHNOLOGY IN THE STATE EXECUTIVE BRANCH (ISP-7720657 A07)*; 6 MONTHS $50,000

PUBLIC TECHNOLOGY INC

PARKER, JOHN K; *URBAN TECHNOLOGY SYSTEM (ISP-7726003 A04)*; 5 MONTHS $98,000

PARKER, JOHN K; *COMMUNITY TECHNOLOGY INITIATIVES PROGRAM (ISP-7918742 A02)*; 4 MONTHS $62,000

PARKER, JOHN K; *COMMUNITY TECHNOLOGY INITIATIVES PROGRAM (ISP-7918742 A03)*; 8 MONTHS $130,002

PARKER, JOHN K; *URBAN CONSORTIUM FOR TECHNOLOGY INITIATIVES (ISP-8023840)*; 4 MONTHS $95,893

FLORIDA

FLORIDA INNOVATION GROUP INC

HAVLICK, J ROBERT, AND FARMER, B HAROLD; *IMPLEMENTATION: THE FLORIDA INNOVATION GROUP (ISP-8015663 A01)*; 3 MONTHS $34,252

HAVLICK, J ROBERT, AND FARMER, B HAROLD; *IMPLEMENTATION: THE FLORIDA INNOVATION GROUP (ISP-8015663 A02)*; 8 MONTHS $80,000

ILLINOIS

NORTHWESTERN UNIVERSITY

HALLETT, STANLEY J; *APPROPRIATE TECHNOLOGY FOR OLDER URBAN NEIGHBORHOODS (ISP-8104603*)*; 12 MONTHS $102,700

KENTUCKY

COUNCIL OF STATE GOVERNMENTS

STUBBS, ANNE D; *STATE MANAGEMENT CAPACITY AND ENVIRONMENTAL RESOURCES ISSUES (ISP-7918583 A02)*; 12 MONTHS $39,488

STUBBS, ANNE D; *STATE MANAGEMENT CAPACITY AND ENVIRONMENTAL RESOURCES ISSUES (ISP-7918583 A03)*; $20,000

MASSACHUSETTS

MASSACHUSETTS STATE LEGIS STATE HOUSE

COX, RAYMOND W; *IPA MOBILITY ASSIGNMENT (RAYMOND COX) (ISP-8007485 A01)*; $2,960

NEW YORK

CORNELL UNIVERSITY

LOEHR, RAYMOND C; *EARTHWORM STABILIZATION OF ORGANIC RESIDUES DERIVED TREATMENT OF SELECTED INDUSTRIAL AND MUNICIPAL WASTES (ISP-8016764)*; 18 MONTHS $180,016

SYRACUSE UNIVERSITY

JENNETT, JOSEPH C, AND SMITH, JAMES E; *ALGAL CONCENTRATION OF HEAVY METALS FROM DILUTE SOLUTIONS (ISP-8014994)*; 18 MONTHS $117,985

NORTH CAROLINA

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

BENSON, JONATHON; *IPA MOBILITY ASSIGNMENT (JONATHON BENSON) (ISP-8003609 A01)*; $3,563

OHIO

GREAT LAKES INNOVATION GROUP

HELSEL, DALE F; *IMPLEMENTATION OF THE GREAT LAKES INNOVATION GROUP (ISP-8026768)*; 8 MONTHS $90,000

PENNSYLVANIA

CONSAD RESEARCH CORPORATION

DOCTORS, SAMUEL I; *EVALUATION OF THE EXPERIMENTAL PHASE OF THE URBAN TECHNOLOGY SYSTEM: PHASE II (ISP-7827101 A07*)*; $50,124

NEWBOLD, PATRICIA L; *EVALUATION OF THE EXPERIMENTAL PHASE OF THE URBAN TECHNOLOGY SYSTEM: PHASE II (ISP-7827101 A08)*; $34,470

PENNSYLVANIA GOVERNOR'S OFFICE POLICY & PLNG

PLOSILA, WALTER H; *STATE SCIENCE, ENGINEERING, AND TECHNOLOGY PROGRAM (IMPLEMENTATION PHASE) (ISP-8019613 A01)*; 6 MONTHS $25,000

ROY F WESTON INC

TENCER, BEN; *ONSHORE IMPACTS OF OFFSHORE OIL AND GAS: METHODOLOGY DEVELOPMENT AND TEST (ISP-7622611 A06)*; $12,509

DEB, ARUN K; *ALTERNATIVE TECHNOLOGIES FOR SMALL WATER SYSTEM MANAGEMENT (ISP-8015075 A01)*; $16,925

RHODE ISLAND

RHODE ISLAND LEAGUE OF CITIES AND TOWNS

PAYNE, KENNETH F; *INTERGOVERNMENTAL TECHNOLOGY UTILIZATION IN NEW ENGLAND (ISP-8024008*)*; 4 MONTHS $78,000

PAYNE, KENNETH F; *INTERGOVERNMENTAL TECHNOLOGY UTILIZATION IN NEW ENGLAND (ISP-8024008 A02)*; 9 MONTHS $185,000

UNIVERSITY OF RHODE ISLAND

HOFFMAN, ROBERT J; *IPA MOBILITY ASSIGNMENT (ROBERT J. HOFFMAN) (ISP-8003608 A01)*; $4,195

TENNESSEE

UNIVERSITY OF TENNESSEE AT KNOXVILLE

ROGERS, LEONARD R; *TENNESSEE INNOVATION GROUP (ISP-7724288 A06*)*; 12 MONTHS $60,500

TEXAS

SOUTHWEST TEXAS STATE UNIVERSITY

JAMES, MORRIS D; *PROJECT FIRST (FACULTY INFORMATION AND RESEARCH SERVICE FOR TEXAS) (ISP-7926510 A01)*; 12 MONTHS $50,939

TEXAS A & M UNIVERSITY

BILES, STEPHEN; *DEMONSTRATING EFFICACY OF THE TEXAS INNOVATION GROUP (ISP-7911986 A03)*; 6 MONTHS $30,000

VIRGINIA

GEORGE MASON UNIVERSITY

WETMORE, WILLIAM; *IPA MOBILITY ASSIGNMENT (ISP-8109716)*; 24 MONTHS $64,200

WASHINGTON

PACIFIC NORTHWEST INNOVATION GROUP

MORK, ERLING O; *PACIFIC NORTHWEST INNOVATION GROUP (ISP-7909343 A02)*; 2 MONTHS $30,000

WASHINGTON STATE LEGISLATURE

BRICKER, J A; *SCIENCE AND TECHNOLOGY PROGRAM FOR THE WASHINGTON LEGISLATURE (ISP-8019579 A01)*; 6 MONTHS $25,000

COOPERATIVE SCIENCE PROGRAM

ALABAMA

AUBURN UNIVERSITY MAIN CAMPUS-AGRICULTURAL EXPERIMENT STATION

HUCK, MORRIS G; *INTERACTIONS BETWEEN PHOTOSYNTHESIS, WATER STRESS, AND ROOT ACTIVITY IN CROP PLANTS (INT-8017281)*; 24 MONTHS $10,920

TRAVEL AWARD

THOMAS, WILLIAM A; *TRAVEL TO ATTEND THE UPPSALA CALEDONIDE SYMPOSIUM, UPPSALA, SWEDEN; AUGUST 13-28, 1981 (INT-8107742)*; 6 MONTHS $950

TULL, JAMES F; *TRAVEL TO ATTEND THE UPPSALA CALEDONIDE SYMPOSIUM, UPPSALA, SWEDEN; AUGUST 13-28, 1981 (INT-8107743)*; 6 MONTHS $950

UNIVERSITY OF ALABAMA

HUNG, R J; *IONOSPHERIC OBSERVATION OF GRAVITY WAVES ASSOCIATED WITH TYPHOONS, SEVERE STORMS, TSUNAMIS AND THEIR INFRARED IMAGERY REMOTE SENSING FROM GEOSYNCHRONOUS SATELLITE (INT-7819334 A01)*; 12 MONTHS $1,750

UNIVERSITY OF ALABAMA IN BIRMINGHAM

BISHOP, DAVID H; *STUDY OF THE GENETIC CAPACITY OF JUNIN VIRUS (INT-8018513)*; 24 MONTHS $32,031

ARIZONA

UNIVERSITY OF ARIZONA

MARKGRAF, VERA; *PALEOCLIMATIC RECONSTRUCTION IN SUBTROPICAL REGIONS OF THE LAST FIFTEEN THOUSAND YEARS (INT-8025347)*; 12 MONTHS $3,850

PATRASCIOIU, ADRIAN; *STUDIES IN THEORETICAL PHYSICS (INT-8026521)*; 36 MONTHS $54,419

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

GOODSTEIN, DAVID L, AND SILVA-MOREIRA, ARMANDO F; *COOPERATIVE PHENOMENA IN METHANE FILMS (INT-8023690)*; 12 MONTHS $5,000

WU, THEODORE Y; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE INTERNATIONAL TSUNAMI SYMPOSIUM 1981; SENDAI-OFUNATO, JAPAN; MAY 25-29, 1981 (INT-8107727)*; 6 MONTHS $8,000

CALIFORNIA POLYTECHNIC ST UNIV,SAN LUIS OBISPO

HOFFMAN, KENNETH A; *TRANSITIONAL PALEOMAGNETIC FIELD BEHAVIOR FROM SITES IN AUSTRALIA AND NEW ZEALAND (EAR-8018791*)*; 24 MONTHS $20,863

INSTITUTE FOR MEDICAL RES-SANTA CLARA COUNTY

STEVENS, DAVID A; *BIOLOGY OF PARACOCCIDIOIDES BRASILIENSIS (INT-8018633)*; 18 MONTHS $26,610

INTL COUNCIL FOR DEV OF UNDERUTILIZED PLANTS

LAZAROFF, LOUIS; *SECOND INTERNATIONAL SEMINAR AND PUBLIC FORUM ON THE WINGED BEAN (INT-8025749)*; 6 MONTHS $30,000

SAN DIEGO STATE UNIVERSITY

HURLBERT, STUART H; *AQUATIC BIOTA OF LATIN AMERICA (DEB-7823629 A02*)*; 12 MONTHS $12,186

KUMMEROW, JOCHEN; *SCIENTISTS AND ENGINEERS IN ECONOMIC DEVELOPMENT: TRAVEL TO BRAZIL (INT-8006385 A01)*; 12 MONTHS $1,407

SCRIPPS CLINIC AND RESEARCH FOUNDATION

HOCH, JAMES A; *A U. S. - JAPAN SEMINAR ON THE BACILLUS SUBTILIS CHROMOSOME: STRUCTURE, REPLICATION, MODIFICATION AND MOLECULAR CLONING (INT-8107737)*; 6 MONTHS $6,450

STANFORD UNIVERSITY

SHAH, HARESH C; *GENERALIZED SEISMIC RISK ANALYSIS AND DEVELOPMENT OF A MODEL SEISMIC CODE FORMAT (INT-8016161)*; 24 MONTHS $14,000

HELLIWELL, ROBERT A; *WAVE-PARTICLE INTERACTIONS IN THE MAGNETOSPHERE (INT-8017310)*; 24 MONTHS $11,849

BIENENSTOCK, ARTHUR I, AND HODGSON, KIETH; *DEVELOPMENT OF SYNCHROTRON RADIATION TECHNIQUES FOR THE RAPID DETERMINATION OF STRUCTURE IN AMORPHOUS AND BIOLOGICAL STRUCTURES (INT-8017322)*; 24 MONTHS $15,999

MOSHER, HARRY S; *BIOLOGICALLY ACTIVE MARINE NATURAL PRODUCTS (INT-8100649)*; 24 MONTHS $7,000

TRAVEL AWARD

GARRISON, ROBERT E; *TRAVEL TO ATTEND THE 2ND INTERNATIONAL CONGRESS OF THE SILICEOUS DEPOSITS IN THE PACIFIC REGION; TOKYO, JAPAN AUGUST 21-27, 1981 (INT-8107577)*; 6 MONTHS $1,000

LEITMANN, GEORGE; *TRAVEL TO ATTEND AN INTERNATIONAL CONFERENCE ON MATHEMATICAL THEORY OF DYNAMICAL SYSTEMS AND MICROPHYSICS; UDINE, ITALY, SEPTEMBER 1-11, 1981 (INT-8112043)*; 6 MONTHS $1,109

HSU, CHIEH S; *TRAVEL TO ATTEND THE IX INTERNATIONAL CONFERENCE ON NONLINEAR OSCILLATIONS; KIEV, USSR, AUGUST 30 SEPTEMBER 6, 1981 (INT-8113096)*; 6 MONTHS $1,100

UNIVERSITY OF CALIFORNIA, BERKELEY

CLOUGH, RAY W; *EARTHQUAKE BEHAVIOR OF TECHI DAM (CEE-7819333 A02*)*; 12 MONTHS $2,200

PRICE, P B; *MOUNTAIN-TOP SEARCH FOR HEAVILY IONIZING PARTICLES (INT-8017780)*; 24 MONTHS $24,000

FALICOV, LEOPOLD M; *THEORETICAL STUDIES OF THE SURFACE PROPERTIES OF ALLOYS (INT-8018688)*; 24 MONTHS $10,000

GROSSMAN, LAWRENCE M; *NUMERICAL METHODS FOR NUCLEAR REACTOR SPACE-TIME DYNAMICS (INT-8105045)*; 12 MONTHS $9,128

SOMORJAI, GABOR A; *STUDIES OF THE ATOMIC STRUCTURE, COMPOSITION, AND REACTIVITY OF WELL-CHARACTERIZED SURFACES OF ALLOYS AND TWO-COMPONENT METAL SYSTEMS (INT-8109263)*; 24 MONTHS $11,000

ANGELAKOS, D J, AND SINGH, AMARJIT; *SPECIAL FOREIGN CURRENCY AWARD (INDIAN CURRENCY AND U.S. DOLLARS) FOR STUDY OF SCANNING ELECTRON MICROSCOPY'S APPLICATION TO SEMICONDUCTOR DEVICES (INT-8112115*)*; 36 MONTHS $14,819

MEL, HOWARD C; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN A CONFERENCE OF THE INTL. UNION FOR CONSERVATION OF NATURE AND NATURAL RESOURCES; CHRISTCHURCH, NEW ZEALAND - OCT. 12-24, 1981 (INT-8118587)*; 6 MONTHS $3,350

UNIVERSITY OF CALIFORNIA, DAVIS

BRUENING, GEORGE E; *BIOCHEMISTRY OF PLANT IMMUNITY TO VIRUSES (INT-8011300)*; 15 MONTHS $20,639

WEBSTER, BARBARA D; *GROUP TRAVEL FOR U. S. PARTICIPANTS IN THE XIII INTERNATIONAL BOTANICAL CONGRESS; SYDNEY, AUSTRALIA AUGUST 21-28, 1981 (INT-8021087)*; 12 MONTHS $36,800

UNIVERSITY OF CALIFORNIA, LOS ANGELES-SCHOOL OF MEDICINE

DIXON, WILFRID J; *US-USSR COMPUTER SOFTWARE STUDY (INT-8020837*)*; 12 MONTHS $62,118

UNIVERSITY OF CALIFORNIA, LOS ANGELES

BUNSHAH, ROINTAN F; *STRUCTURE/PROPERTY RELATIONSHIP IN MICROLAMINATE COMPOSITES (DMR-7721391 A03*)*; 12 MONTHS $45,000

GERLA, MARIO; *COMMUNICATIONS PROTOCOLS FOR LOCAL BROADCAST NETWORKS (INT-8023740*)*; 36 MONTHS $18,015

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

CRAIG, HARMON, AND LUPTON, JOHN E; *CONTINENTAL AND CONVERGENT - MARGIN VOLCANISM: ISOTOPIC STUDIES OF RARE GASES, CARBON, HYDROGEN, AND NITROGEN IN FLUIDS AND ROCKS (EAR-8018784*)*; 12 MONTHS $11,500

UNIVERSITY OF CALIFORNIA, SAN DIEGO

GOULD-SOMERO, MEREDITH; *MEMBRANE RECONSTITUTION ANALYSIS OF GAMETE INTERACTIONS (INT-8019341)*; 24 MONTHS $24,420

REVELLE, ROGER, AND CHATURVEDI, M C; *SFC AWARD (IN INDIAN CURRENCY & U.S. DOLLARS) FOR WORKSHOP ON NON-CONVENTIONAL APPROACHES TO FLOOD MITIGATION; NEW DELHI, INDIA, MARCH 1981 (INT-8106630*)*; 12 MONTHS $3,450

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

FULCO, JOSE R; *COOPERATIVE PROGRAM IN THEORETICAL PHYSICS RESEARCH (INT-8016912)*; 24 MONTHS $29,000

COLORADO

COLORADO STATE UNIVERSITY

SHEN, HSIEH W; *THE PHYSICAL BASIS OF SURFACE WATER HYDROLOGY WITH EMPHASIS ON HILLSLOPE HYDROLOGY AND DRAINAGE NETWORK DEVELOPMENTS (INT-8021914*)*; 12 MONTHS $19,963

LABADIE, JOHN W; *OPTIMAL OPERATION OF COMPLEX WATER RESOURCE PROJECTS. U.S.PHILIPPINE RESEARCH COLLABORATION (INT-8025750)*; 18 MONTHS $44,800

NATIONAL BUREAU OF STANDARDS-NATIONAL BUREAU OF STANDARDS-BOULDER

EVENSON, KENNETH M, PETERSEN, F RUSSELL, AND JENNINGS, DONALD A; *FAR INFRARED LASERS: NEW LINES AND FREQUENCY MEASUREMENTS (INT-8019014)*; 24 MONTHS $20,520

TRAVEL AWARD

SCHUMM, STANLEY A; *TRAVEL TO ATTEND THE INTERNATIONAL SYMPOSIUM ON EROSION AND SEDIMENT TRANSPORT IN PACIFIC RIM STEEPLANDS, CHRISTCHURCH, NEW ZEALAND, JANUARY 25 - 31, 1981 (INT-8021630)*; 6 MONTHS $1,836

MAYER, WILLIAM V; *TRAVEL TO ATTEND THE INT'L CONFERENCE OF THE COMMISSION FOR BIOLOGICAL EDUCATION OF THE INT'L UNION OF BIOLOGICAL SCIENCES; SINGAPORE, JUNE 3 - 7, 1981 (INT-8109500)*; 6 MONTHS $1,930

UNIVERSITY OF COLORADO AT BOULDER

SCOTT, JAMES F; *LASER SPECTROSCOPY OF FERROELECTRICS AND SUPERIONIC CONDUCTORS (INT-8013736)*; 12 MONTHS $13,988

BEKOFF, MARC; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE XVII INTERNATIONAL ETHOLOGICAL CONFERENCE, OXFORD, ENGLAND, SEPTEMBER 1-9, 1981 (INT-8103139)*; 6 MONTHS $10,000

PETERSON, ROY J, AND ROST, E S; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE IXTH INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE, VERSAILLES, FRANCE, JULY 6-10, 1981 (INT-8112044)*; 6 MONTHS $4,000

CONNECTICUT

WESLEYAN UNIVERSITY

MORGAN, THOMAS J; *U.S. - MEXICO JOINT WORKSHOP ON NEGATIVE ION COLLISION EFFECTS (INT-8019491)*; 6 MONTHS $8,750

YALE UNIVERSITY

ROSENBERG, LEON E; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE SIXTH INTERNATIONAL CONGRESS OF HUMAN GENETICS, JERUSALEM, ISRAEL, SEPTEMBER 13-18, 1981 (INT-8019668)*; 9 MONTHS $10,000

ADAMS, RICHARD D; *U.S.-FRANCE SEMINAR ON THE ACTIVATION OF CARBON DIOXIDE AND RELATED HETEROALLENES ON METAL CENTERS: MAY 1981 IN RENNES, FRANCE (INT-8105278)*; 6 MONTHS $16,000

DELAWARE

FRANKLIN INSTITUTE-BARTOL RESEARCH FOUNDATION

PITTEL, STUART; *A THEORETICAL STUDY OF NUCLEAR COLLECTIVE MOTION USING THE INTERACTING BOSON APPROXIMATION (PHY-8015342*)*; 24 MONTHS $14,000

MULLAN, DERMOTT J; *THEORETICAL STUDIES OF PARTICLE ACCELERATION IN SHOCKED MAGNETIC NEUTRAL SHEETS (INT-8017311)*; 12 MONTHS $9,965

UNIVERSITY OF DELAWARE

FRANCIS, DAVID W; *U.S. - JAPAN SEMINAR ON CELLULAR SLIME MOLD DEVELOPMENT; FEBRUARY 1-4, 1981; LA JOLLA, CALIFORNIA (INT-8105575)*; 6 MONTHS $11,088

DISTRICT OF COLUMBIA

AMERICAN GEOPHYSICAL UNION

SPILHAUS, A F; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE THIRD SCIENTIFIC ASSEMBLY OF THE INTERNATIONAL ASSOCIATION OF METEOROLOGY AND ATMOSPHERIC PHYSICS; HAMBURG, GERMANY, AUG. 17 - 28, 1981 (INT-8024858)*; 12 MONTHS $24,750

SPILHAUS, A F; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE FOURTH SCIENTIFIC ASSEMBLY OF THE INT'L ASSOCIATION OF GEOMAGNETISM AND AERONOMY, EDINBURGH, SCOTLAND; AUGUST 3 - 15, 1981 (INT-8100336)*; 9 MONTHS $16,000

AMERICAN PSYCHOLOGICAL ASSOCIATION

PALLAK, MICHAEL S; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE XVIII INTERAMERICAN CONGRESS OF PSYCHOLOGY; SANTO DOMINGO, DOMINICAN REPUBLIC - JUNE 21-26, 1981 (INT-8106786)*; 6 MONTHS $10,000

ASSOCIATION OF AMERICAN GEOGRAPHERS

HOFFMAN, GEORGE W; *U.S. - GERMANY WORKSHOP ON GEOGRAPHY AND REGIONAL POLICY: RESOURCE MANAGEMENT BY COMPLEX POLITICAL SYSTEMS (INT-8020241)*; 6 MONTHS $9,869

CARNEGIE INSTITUTION OF WASHINGTON

BROWN, JEANETTE S; *INVESTIGATION OF THE PIGMENT-PROTEIN COMPOSITION OF PHOTOSYNTHE 'C MEMBRANES (INT-8011301)*; 8 MONTHS $15,026

COURTESY TRAVEL SERVICE

LYNCH, LOUISE; *TRAVEL AND ADMINISTRATIVE SERVICES IN SUPPORT OF INTERNATIONAL SCIENCE ACTIVITIES SPONSORED BY THE NATIONAL SCIENCE FOUNDATION (INT-8018782 A02*)*; 7 MONTHS $270,000

LYNCH, LOUISE; *TRAVEL AND ADMINISTRATIVE SERVICES IN SUPPORT OF THE INTERNATIONAL SCIENCE ACTIVITIES SPONSORED BY THE NATIONAL SCIENCE FOUNDATION (INT-8018782 A02*)*; 4 MONTHS $520,000

LYNCH, LOUISE; *TRAVEL AND ADMINISTRATIVE SERVICES IN SUPPORT OF THE INTERNATIONAL SCIENCE ACTIVITIES SPONSORED BY THE NATIONAL SCIENCE FOUNDATION (INT-8018782 A04*)*; 12 MONTHS $250,000

FEDERATION OF ORGANIZATIONS FOR PROF WOMEN

MEDNICK, MARTHA; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN FIRST INTERNATIONAL INTERDISCIPLINARY CONGRESS ON WOMEN; HAIFA, ISRAEL; DECEMBER 28, 1981 TO JANUARY 1, 1982 (INT-8100330)*; 10 MONTHS $10,000

GEORGETOWN UNIVERSITY

FINN, EDWARD J; *IPA MOBILITY ASSIGNMENT (EDWARD J FINN) (INT-8019654 A01)*; 2 MONTHS $2,000

FINN, EDWARD J; *IPA MOBILITY ASSIGNMENT (EDWARD J FINN) (INT-8116787)*; 13 MONTHS $15,000

INDIVIDUAL AWARD

NONE, N; *U.S. - FRANCE EXCHANGE OF SCIENTISTS PROGRAM (INT-8109192)*; 36 MONTHS $251,000

NONE, N; *U.S. - FRANCE EXCHANGE OF SCIENTISTS PROGRAM (INT-8109193)*; 36 MONTHS $34,000

INTERNATIONAL COMMUNICATION AGENCY

TSUKAYAMA, ROBERT A; *NATIONAL PROGRAM FOR ADVANCED STUDY AND RESEARCH IN THE PEOPLE'S REPUBLIC OF CHINA (INT-8019342 A01)*; 21 MONTHS $150,000

LINGUISTIC SOCIETY OF AMERICA

FROMKIN, VICTORIA A; *GROUP TRAVEL FOR U. S. PARTICIPANTS IN THE 5TH INTERNATIONAL CONFERENCE ON HISTORICAL LINGUISTICS; GALWAY, IRELAND; APRIL 6 - 10, 1981 (INT-8026472)*; 6 MONTHS $4,000

FROMKIN, VICTORIA A; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 6TH INTERNATIONAL CONGRESS OF APPLIED LINGUISTICS; LUND, SWEDEN; AUGUST 9 - 15, 1981 (INT-8109511)*; 6 MONTHS $3,000

NATIONAL ACADEMY OF SCIENCES

BULLOCK, MARY B; *CHINA COMMITTEE SCIENCE EXCHANGE PROGRAM (INT-8107221*)*; 12 MONTHS $700,000

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

MITCHELL, LAWRENCE C; *EXCHANGE OF SCIENTISTS BETWEEN NAS, USA, AND THE ACADEMIES OF THE USSR, POLAND, YUGOSLAVIA, ROMANIA, HUNGARY, CZECHOSLOVAKIA, BULGARIA, AND THE GERMAN DEMOCRATIC REPUBLIC (INT-7824250 A04)*; 12 MONTHS $500,000

MITCHELL, LAWRENCE C; *EXCHANGE OF SCIENTISTS BEWEEN THE NAS, USA, AND THE ACADEMIES OF THE USSR, POLAND, YUGOSLAVIA, ROMANIA, HUNGARY, CZECHOSLOVAKIA, BULGARIA, & THE GERMAN DEMOCRATIC REPUBLIC (INT-7824250 A05)*; $500,100

TOLLERTON, HARRY M; *U.S. PARTICIPATION IN THE INTERNATIONAL INSTITUTE FOR APPLIED SYSTEMS ANALYSIS (INT-7923350 A01)*; 12 MONTHS $2,500,000

POPULATION ASSOCIATION OF AMERICA

MERRICK, THOMAS W; *GROUP TRAVEL FOR U. S. PARTICIPANTS IN THE XIX GENERAL CONFERENCE OF THE INTL. UNION OF SCIENTIFIC DEMOGRAPHERS (IUSSP); MANILA PHILIPPINES - DECEMBER 9-16, 1981 (INT-8100337)*; 12 MONTHS $18,000

SMITHSONIAN INSTITUTION

REINGOLD, NATHAN; *A U.S. - AUSTRALIA JOINT SEMINAR/WORKSHOP ON 'THE HISTORY OF SCIENTIFIC DEVELOPMENT', MELBOURNE, AUSTRALIA; MAY 26-30, 1981 (INT-8111525)*; 6 MONTHS $20,789

SOCIETY OF AMERICAN FORESTERS

BERNTSEN, CARL M; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE XVII INTERNATIONAL UNION OF FOREST RESEARCH ORGANIZATIONS, WORLD CONGRESS; KYOTO, JAPAN; SEPTEMBER 6 - 17, 1981 (INT-8024857)*; 9 MONTHS $18,980

FLORIDA

NOVA UNIVERSITY-OCEAN SCIENCE CENTER

WITTE JANET M; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN A MEETING OF THE SCIENTIFIC COMMITTEE ON OCEANIC RESEARCH (SCOR) WORKING GROUP 47; VENICE, ITALY - APRIL 27-30, 1981 (INT-8100332)*; 6 MONTHS $10,400

UNIVERSITY OF FLORIDA

LAITINEN, HERBERT A; *METAL OXIDE ELECTRODES WITH NOVEL FUNCTIONS (INT-8016868)*; 24 MONTHS $3,954

UMAN, MARTIN A, AND UMAN, MARTIN A; *MEASUREMENT OF CHARACTERISTICS OF LIGHTNING: CURRENTS AND ELECTRIC MAGNETIC FIELDS (INT-8103349)*; 36 MONTHS $15,815

BERNARD, H RUSSELL; *GROUP TRAVEL FOR U. S. PARTICIPANTS IN THE 41ST ANNUAL MEETING OF THE SOCIETY FOR APPLIED ANTHROPOLOGY, EDINBURG, SCOTLAND, APRIL, 1981 (INT-8105576)*; 6 MONTHS $11,988

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY MAIN CAMPUS

GRAMS, GERALD W; *STUDIES OF CHANGES IN THE CHARACTERISTICS OF PARTICULATES AND MINOR SPECIES ACROSS THE TROPOPAUSE (INT-8105102)*; 12 MONTHS $14,886

SKIDAWAY INSTITUTE OF OCEANOGRAPHY

MENZEL, DAVID W; *BIOLOGICAL OCEANOGRAPHIC PROCESSES IN OR NEAR WESTERN BOUNDARY CURRENTS (GULF STREAM AND KUROSHIO) (INT-8017296)*; 24 MONTHS $15,990

TRAVEL AWARD

CONNER, JOE W; *TRAVEL TO ATTEND THE INTERNATIONAL SYMPOSIUM ON RESPONSES OF MARINE ORGANISMS TO POLLUTANTS, PLYMOUTH, ENGLAND, MAY 19 - 21, 1981 (INT-8105579)*; 6 MONTHS $1,200

UNIVERSITY OF GEORGIA

SHOTTS, EMMETT B; *DISEASES OF CULTURED FISHES IN TAIWAN (INT-8017569)*; 24 MONTHS $24,368

MARCHINTON, R LARRY; *BIOLOGY OF WHITE-TAILED DEER IN SURINAME (INT-8025575)*; 30 MONTHS $13,519

MCGHEE, R BARCLAY; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN SIXTH INTERNATIONAL CONGRESS OF PROTOZOOLOGY, WARSAW, POLAND, JULY 5 - 11, 1981 (INT-8100248)*; 6 MONTHS $10,000

CLANCEY, KEVIN F; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE OTTO TOEPLITZ MEMORIAL CONFERENCE, TEL AVIV, ISRAEL, MAY 11 - 15, 1981 (INT-8104385)*; 6 MONTHS $9,150

ATYEO, WARREN T, AND PETERSON, PAUL C; *COOPERATIVE RESEARCH ON BIRD PARASITES (INT-8106019)*; 24 MONTHS $7,550

HAWAII

UNIVERSITY OF HAWAII-MANOA

MANGHNANI, MURLI H; *SECOND U. S. - JAPAN RESEARCH SEMINAR ON HIGH-PRESSURE RESEARCH APPLICATIONS IN GEOPHYSICS: DECEMBER, 1980 IN HAKONE, JAPAN (INT-8026818)*; 12 MONTHS $13,309

STREET, JOHN M; *PERCEPTIONS OF AND ADJUSTMENTS TO ACCELERATED SOIL EROSION AND SLOPE INSTABILITY IN THE SLOPELANDS OF THE TAIPEI BASIN AND KEELUNG HARBOR WATERSHED (INT-8105002)*; 24 MONTHS $13,969

IDAHO

UNIVERSITY OF IDAHO

ENSIGN, RONALD D; *FORAGE PRODUCTION: WHITE CLOVER (TRIFOLIUM REPENS) BREEDING AND CULTIVAR DEVELOPMENT (INT-8017462)*; 12 MONTHS $23,500

MOSLEMI, A A; *STRUCTURAL PANELS WITH LIGNOCELLULOSICS AND PORTLAND CEMENT (INT-8025284)*; 24 MONTHS $14,920

ILLINOIS

AMERICAN INSTITUTE OF INDIAN STUDIES

DIMOCK, EDWARD C; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY AND U.S. DOLLARS) FOR RESEARCH SUPPORT OF U.S. SCIENTISTS WORKING IN INDIA (INT-8016982 A01*)*; 12 MONTHS $15,000

ILLINOIS INSTITUTE OF TECHNOLOGY

WASAN, DARSH T; *INTERFACIAL TRANSPORT IN MULTIPHASE PROCESSES (INT-8015717)*; 36 MONTHS $50,625

NORTHERN ILLINOIS UNIVERSITY

MESERVE, PETER L; *COMMUNITY ECOLOGY OF SMALL MAMMALS IN A TEMPERATE RAIN FOREST (INT-8018631)*; 24 MONTHS $30,734

NORTHWESTERN UNIVERSITY

BANKOFF, S GEORGE; *FRAGMENTATION OF LIQUID DROPS BEHIND A PRESSURE SHOCK FRONT (MEA-8017843 A01*)*; 12 MONTHS $21,000

MESHII, MASAHIRO; *U. S. - JAPAN SEMINAR ON THE MECHANICAL PROPERTIES OF BODY-CENTERED-CUBIC METALS: MARCH 1981 IN HONOLULU, HAWAII (INT-8107104)*; 6 MONTHS $12,300

BOLEY, BRUNO A; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE SIXTH INTERNATIONAL CONFERENCE ON STRUCTURAL MECHANICS IN REACTOR TECHNOLOGY, PARIS, FRANCE, AUGUST 16 - 21, 1981 (INT-8111572)*; 6 MONTHS $5,500

TRAVEL AWARD

DUNN, FLOYD; *TRAVEL TO ATTEND THE CONFERENCE ON ULTRASOUND IN BIOLOGY AND MEDICINE - UBIOMED-V, PUSHCHINO, USSR, SEPTEMBER 7-11, 1981 (INT-8113672)*; 6 MONTHS $1,600

UNIVERSITY OF CHICAGO

ULINSKI, PHILIP S; *CORTICAL CONNECTIONS IN ECHIDNAS (INT-8102645)*; 3 MONTHS $5,404

KRON, RICHARD G; *PHOTOMETRY AND SPECTROSCOPY OF FAINT GALAXIES AND OBJECTS WITH ULTRAVIOLET EXCESS (INT-8103332)*; 36 MONTHS $12,740

FREED, KARL F; *COLLISION INDUCED INTERSYSTEM CROSSING IN POLYATOMIC MOLECULES (INT-8107901)*; 36 MONTHS $11,000

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

WALBERG, HERBERT J; *INCREASING THE PRODUCTIVITY OF SCIENCE LEARNING IN EARLY ADOLESCENTS (INT-8016910)*; 24 MONTHS $9,500

SAXENA, SATISH C; *HEAT TRANSFER IN FLUIDIZED BEDS (MEA-8022097*)*; 12 MONTHS $20,000

UNIVERSITY OF ILLINOIS AT URBANA

CRUZ, JOSE B; *MULTIVARIABLE STOCHASTIC SYSTEMS WITH MULTIPLE DECISION MAKERS: MODELS FOR POLICY ANALYSIS (INT-8018622*)*; 24 MONTHS $15,844

HANRATTY, THOMAS J; *MODELLING ANNULAR GAS-LIQUID FLOWS (INT-8103007)*; 24 MONTHS $30,000

MARTIN, JAMES C; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE THIRD INTERNATIONAL SYMPOSIUM ON ORGANIC FREE RADICALS, FREIBERG, WEST GERMANY, AUGUST 31 - SEPTEMBER 4, 1981 (INT-8109332)*; 7 MONTHS $10,000

STOUT, GLENN E; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE IVTH WORLD CONGRESS ON WATER RESOURCES, BUENOS AIRES, ARGENTINA - SEPT 3-11, 1982 (INT-8119301)*; 12 MONTHS $5,000

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

DEVINS, D W; *CYCLOTRON STUDIES OF KNOCK-OUT REACTIONS (INT-8019443)*; 3 MONTHS $3,940

PURDUE UNIVERSITY

MURTHY, S N B; *SFC AWARD (INCLUDING U.S. DOLLARS AND INDIAN CURRENCY) TO SUPPORT U.S. PARTICIPATION AT THE 5TH INT'L SYMPOSIUM ON AIR BREATHING ENGINES, BANGALORE, INDIA, FEB 16-21, 1981 (INT-8019591*)*; 12 MONTHS $966

HONIG, J M; *SFC AWARD (IN INDIAN CURRENCY AND U. S. DOLLARS) FOR A WORKSHOP ON PREPARATION AND CHARACTERIZATION OF MATERIALS TO BE HELD IN INDIA IN EARLY 1981 (INT-8023689*)*; 12 MONTHS $600

RODRIGUEZ, S; *THEORETICAL STUDIES OF NARROW GAP SEMICONDUCTORS AND SEMIMAGNETIC SEMICONDUCTORS (INT-8103336)*; 24 MONTHS $8,000

TRAVEL AWARD

YAO, JAMES T; *TRAVEL TO ATTEND THE THIRD INTERNATIONAL CONFERENCE ON STRUCTURAL SAFETY AND RELIABILITY, TRONDHEIM, NORWAY, JUNE 23 - 25, 1981 (INT-8100025)*; 6 MONTHS $1,000

CROCKER, MALCOLM J; *TRAVEL TO ATTEND AN INTERNATIONAL MEETING ON THE INDENTIFICATION OF SOUND SOURCES AND SOUND PROPAGATION PATHS, WARSAW, POLAND, JULY 6-11, 1981 (INT-8114755)*; 6 MONTHS $950

UNIVERSITY OF NOTRE DAME

SZEWCZYK, ALBIN A; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE FIFTEENTH BIENNIAL FLUID DYNAMICS SYMPOSIUM: WARSAW, POLAND - SEPTEMBER 7-12, 1981 (INT-8100030)*; 7 MONTHS $3,000

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

SHELTON, ROBERT N; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE INTERNATIONAL SYMPOSIUM ON THE PHYSICS OF SOLIDS UNDER HIGH PRESSURE, BAD HONNEF, FEDERAL REPUBLIC OF GERMANY, AUGUST 10-14, 1981 (INT-8019964)*; 10 MONTHS $10,000

FRANKLIN, WILLIAM L; *SOCIAL ECOLOGY OF THE SOUTH AMERICAN GUANACO (INT-8105084*)*; 24 MONTHS $15,966

VONDRA, CARL F, AND SAYRE, WILLIAM O; *THE GEOLOGY AND MAGNETIC POLARITY STRATIGRAPHY OF THE PLIO-PLEISTOCENE DEPOSITS IN THE CAGAYAN VALLEY, LUZON, PHILIPPINES (INT-8108472)*; 14 MONTHS $29,513

TAYLOR, HOWARD M; *WATER UPTAKE BY PLANT ROOT SYSTEMS (INT-8115901)*; 6 MONTHS $14,240

UNIVERSITY OF IOWA

PATEL, V C; *FLUID DYNAMICS OF SHIP VISCOUS FLOW WITH THREE-DIMENSIONAL SEPARATION (INT-8017308)*; 24 MONTHS $13,200

BEDDOW, JOHN K; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE INTERNATIONAL CONFERENCE ON POWDER TECHNOLOGY, KYOTO, JAPAN, SEPTEMBER 27-OCTOBER 1, 1981 (INT-8113671)*; 6 MONTHS $12,000

KANSAS

KANSAS STATE UNIVERSITY

HWANG, CHING-LAI, AND TILLMAN, FRANK A; *MISSION EFFECTIVENESS MODEL OF A SYSTEM WITH VARIOUS MISSION TYPES (INT-8101225)*; 12 MONTHS $6,820

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

JONES, W V; *NUCLEAR INTERACTIONS, CHARGE COMPOSITION, AND ENERGY SPECTRA OF COSMIC RAYS UP TO 1014 EV. (INT-8017067)*; 24 MONTHS $18,000

MEYERS, SAMUEL P, AND PERRY, W G; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE WORLD CONFERENCE ON AQUACULTURE, VENICE, ITALY, SEPTEMBER 21-25, 1981 (INT-8100707)*; 6 MONTHS $5,000

TRAVEL AWARD

COWIN, STEPHEN C; *TRAVEL TO ATTEND TWO INTERNATIONAL CONFERENCES 1) PLASTIC BEHAVIOR OF ANISOTROPIC SOLIDS, GRENOBLE, FRANCE AND 2) CONTINUUM MODELS OF DISCRETE SYSTEMS, STOCKHOLM, SWEDEN (INT-8104503);* 6 MONTHS $1,000

MAINE

UNIVERSITY OF MAINE, ORONO

NICHOLSON, BRUCE L; *STUDIES OF VIRUS DISEASES IN MARINE FISHES AND SHELLFISH IN TAIWAN (INT-8104447);* 36 MONTHS $12,321

MARYLAND

JOHNS HOPKINS UNIVERSITY

TRUESDELL, CLIFFORD A; *THEORY AND NUMERICAL CALCULATION OF IRREVERSIBLE PROCESSES ESPECIALLY IN STRUCTURED MEDIA (INT-8019434);* 36 MONTHS $31,215

MARTIN MARIETTA CORPORATION-MARTIN MARIETTA LABORATORY

PICKENS, JOSEPH R, AND LATANISTON, R M; *THE MECHANISMS AND PHENOMENOLOGY OF EMBRITTLEMENT OF ULTRAFINE-GRAINED ALUMINUM ALLOYS (DMR-8013457 A01*);* 4 MONTHS $25,000

NATIONAL BUREAU OF STANDARDS

FRANKLIN, ALAN D; *IMPEDANCE SPECTROSCOPY IN IONIC CONDUCTIVITY (INT-8011299);* 6 MONTHS $9,870

SOCIETY FOR APPLIED SPECTROSCOPY

RAINS, THEODORE C; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 9TH INTERNATIONAL CONFERENCE ON ATOMIC SPECTROSCOPY AND XXII COLLOQUIUM SPECTROSCOPICUM INTERNATIONALE, TOKYO, JAPAN, 9/4-8/81 (INT-8107578);* 6 MONTHS $9,000

TRAVEL AWARD

GASS, SAUL I; *TRAVEL TO ATTEND THE 9TH TRIENNIAL CONFERENCE ON OPERATIONAL RESEARCH, HAMBURG, GERMANY, JULY 20-24, 1981 (INT-8111152);* 6 MONTHS $588

UNIVERSITY OF MARYLAND, COLLEGE PARK

ROSENFELD, AZRIEL; *GEOGRAPHIC INFORMATION SYSTEMS THAT EXHIBIT RECONFIGURABILITY (INT-8023144);* 12 MONTHS $2,300

MCNESBY, JAMES R; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE X INTERNATIONAL CONFERENCE ON PHOTOCHEMISTRY, CRETE, GREECE, SEPTEMBER 6 - 12, 1981 (INT-8107502);* 7 MONTHS $6,000

HOLMGREN, HARRY D; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE NINTH INTERNATIONAL CONFERENCE ON CYCLOTRONS AND THEIR APPLICATIONS, CAEN, FRANCE, SEPTEMBER 7-10, 1981 (INT-8111167);* 6 MONTHS $5,000

MASSACHUSETTS

BOSTON UNIVERSITY

STANLEY, H E; *AN INTEGRATED EXPERIMENTAL AND THEORETICAL STUDY OF SUPERCOOLED WATER (INT-8012222);* 36 MONTHS $113,465

STANLEY, H E; *NEW EXPERIMENTAL AND THEORETICAL APPROACHES TO POLYMER MATERIALS (INT-8105106);* 12 MONTHS $13,000

BRANDEIS UNIVERSITY

ROSBASH, MICHAEL M; *ISOLATION OF TUBULIN GENES FROM TRYPANOSOMA CRUZI (INT-8018849);* 24 MONTHS $23,350

HARVARD UNIVERSITY

RAMSEY, NORMAN F; *NEUTRON ELECTRIC DIPOLE MOMENT AND PARITY VIOLATING SPIN ROTATION EXPERIMENTS (INT-8021912);* 24 MONTHS $14,000

PETERSEN, ULRICH; *GEOCHEMISTRY OF TUNGSTEN AND BASE METAL MINERALIZATION (INT-8105037);* 12 MONTHS $15,050

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SZEKELY, JULIAN; *MATHEMATICAL AND PHYSICAL MODELLING OF THE ELECTROSLAG REMELTING PROCESS (DMR-7924267 A02*);* 12 MONTHS $45,000

FLEMINGS, MERTON C; *ELECTROSLAG CASTINGS (DMR-7924268 A02*);* 12 MONTHS $45,000

TORRIANI, ANNAMARIA; *SFC AWARD (IN INDIAN CURRENCY AND U.S. DOLLARS) FOR STUDIES ON MECHANISM AND CONTROL OF TRANSCRIPTION AND TRANSLATION IN VIVO AND IN VITRO (INT-8016104 A01*);* 12 MONTHS $1,570

SZEKELY, JULIAN; *THE EFFECT OF TURBULENT ELECTROMAGNETICALLY DRIVEN FLOWS IN SOLIDIFICATION PROCESSING APPLICATIONS (INT-8017283);* 24 MONTHS $11,500

KERMAN, ARTHUR K; *INTERACTIONS OF ELECTRONS AND PIONS WITH NUCLEI (INT-8017290);* 24 MONTHS $8,122

ROHSENOW, WARREN M, AND EL-MASRI, MAHER; *CRITICAL HEAT FLUX FOR GRAVITY-DRIVEN LIQUID FILMS (MEA-8017416 A01*);* 12 MONTHS $31,980

LEWIN, WALTER H; *WORLD WIDE COORDINATED OBSERVATIONS OF X-RAY SOURCES (INT-8017890);* 24 MONTHS $22,200

AVERBACH, BENJAMIN L; *GROUP TRAVEL FOR U. S. PARTICIPANTS IN THE FIFTH CONGRESS OF THE INTERNATIONAL CONFERENCE ON FRACTURE, CANNES, FRANCE, APRIL, 1981 (INT-8100249);* 6 MONTHS $12,600

LARSON, RICHARD C; *GROUP TRAVEL FOR U. S. PARTICIPANTS IN AN INTERNATIONAL SYMPOSIUM ON LOCATIONAL DECISIONS, SKODSBORG, DENMARK, JUNE 15 - 19, 1981 (INT-8100335);* 9 MONTHS $6,000

HARLEMAN, DONALD R; *COUPLED HYDROTHERMAL-BIOCHEMICAL EUTROPHICATION MODELS (INT-8112452);* 12 MONTHS $15,855

MICHIGAN

MICHIGAN MOLECULAR INSTITUTE

MEIER, DALE J; *PROPERTIES AND MORPHOLOGY OF BLOCK COPOLYMERS AND BLENDS (INT-8016893);* 24 MONTHS $9,140

MICHIGAN STATE UNIVERSITY

GALONSKY, AARON; *NEUTRON AND GAMMA-RAY EMISSION IN STRONGLY-DAMPED HEAVY-ION COLLISIONS (INT-8015333);* 36 MONTHS $59,236

SIMKIN, SUSAN; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONFER WITH COMPUTER SCIENTISTS AT THE INDIAN INSTITUTE OF TECHNOLOGY, MADRAS (INT-8117599);* 24 MONTHS $12,740

TRAVEL AWARD

PONTER, ANTHONY B; *TRAVEL TO ATTEND THE 7TH INTL. CONGRESS OF CHEMICAL ENGINEERING, CHEMICAL EQUIPMENT DESIGN & AUTOMATION, PRAHA, CZECHOSLOVAKIA - AUGUST 31 - SEPTEMBER 4, 1981 (INT-8112830);* 6 MONTHS $1,200

UNIVERSITY OF MICHIGAN-ANN ARBOR

WALKER, JAMES C G; *ANAMALOUS AIRGLOW BRIGHTNESS VARIATIONS AT LOW AND MIDDLE LATITUDES (INT-8018364);* 36 MONTHS $72,778

STEDMAN, DONALD H; *THE MEASUREMENT OF NITROGEN OXIDES AND NITRIC ACID IN CLEAN AIR IN THE SOUTHERN HEMISPHERE (INT-8018598);* 8 MONTHS $17,000

WRIGHT, HENRY T; *THE DEVELOPMENT OF COMPLEX SOCIETIES IN SOUTHWEST ASIA (INT-8018780);* 24 MONTHS $6,500

NAGY, ANDREW F; *SOLAR WIND-PLANETARY IONOSPHERE INTERACTIONS (INT-8026015);* 12 MONTHS $15,000

CONVERSE, PHILIP E, AND JENNINGS, M KENT; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 4TH ANNUAL MEETING OF THE INTERNATIONAL SOCIETY OF POLITICAL PSYCHOLOGY; MANNHEIM UNIV., WEST GERMANY; JUNE 24 - 27, 1981 (INT-8106785);* 6 MONTHS $5,100

CHEN, KAN; *SYSTEM ANALYSIS IN DIFFERENT SOCIAL SETTINGS: A CASE IN WATER POLLUTION CONTROL (INT-8117277);* 12 MONTHS $40,481

MINNESOTA

TRAVEL AWARD

SPLETTSTOESSER , JOHN F; *TRAVEL TO ATTEND THE INTERNATIONAL CONFERENCE ON ARIDIC SOILS; JERUSALEM, ISRAEL; MARCH 25 - APRIL 15, 1981 (INT-8107746);* 6 MONTHS $1,200

UNIVERSITY OF MINNESOTA AT SAINT PAUL

BUSHNELL, WILLIAM R; *U.S. - JAPAN SEMINAR ON THE BIOCHEMICAL PHYSIOLOGICAL BASIS OF PLANT INFECTION, BRAINE RD., MINNESOTA MAY 17-22, 1981 (INT-8109754);* 6 MONTHS $6,500

LI, PAUL H; *U.S. - JAPAN COOPERATIVE SEMINAR: PLANT COLD HARDINESS/ SAPPORO, JAPAN/AUGUST 11-14,1981 (INT-8113073);* 9 MONTHS $14,025

MISSISSIPPI

CLAY MINERALS SOCIETY

STUCKI, JOSEPH W; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE SEVENTH INTERNATIONAL CLAY CONFERENCE; BOLOGNA AND PAVIA, ITALY; SEPTEMBER 6 - 12, 1981 (INT-8100497);* 9 MONTHS $18,000

MISSOURI

MISSOURI BOTANICAL GARDEN

DAVIDSE, GERRIT; *BOTANICAL EXPLORATION IN VENEZUELA (INT-8009802*);* 24 MONTHS $35,213

UNIVERSITY OF MISSOURI, COLUMBIA

WALL, JUDY D; *STUDIES ON THE MOLECULAR LEVEL OF THE PRODUCTION OF HYDROGEN BY RHODOPSEUDOMONAS CAPSULATA (HYDROGENASE AND NITROGENASE) (INT-8026570);* 36 MONTHS $4,000

DECKER, WAYNE L; *GROUP TRAVEL FOR U. S. PARTICIPANTS IN THE 9TH INTERNATIONAL CONGRESS OF BIOMETEOROLOGY, OSNABRUECK & STUTTGARTHOHENHEIM, FEDERAL REPUBLIC OF GERMANY; 9/13 - 10/1/81 (INT-8105831);* 7 MONTHS $17,000

WASHINGTON UNIVERSITY-SCHOOL OF MEDICINE

MATHEWS, F S; *STRUCTURAL STUDY OF TWO B-TYPE CYTOCHROMES (INT-8018369);* 36 MONTHS $6,000

WASHINGTON UNIVERSITY

VARNER, JOSEPH E; *GENETIC AND DEVELOPMENTAL STUDIES OF THE 'IN VITRO' CULTURED CALLUS OF THE SEED FEMALE GAMETOPHYTE OF ARAUCARIA ARAUCANA (INT-8017315);* 36 MONTHS $18,600

MONTANA

UNIVERSITY OF MONTANA

DERRICK, WILLIAM R; *U.S.-COLOMBIA MATHEMATICS COLLOQUIUM, UNIVERSIDAD DEL VALLE, CALI, COLOMBIA; JULY, 12 - AUGUST 8, 1981 (INT-8026819);* 12 MONTHS $12,140

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

HUNT, ROBERT M, AND VOORHIES, MICHAEL R; *CORRELATIONS BETWEEN THE MAMMALS OF CHINA AND NORTH AMERICA IN THE LATE CENOZOIC PERIOD (INT-8117703)*; 24 MONTHS $38,477

NEW HAMPSHIRE

DARTMOUTH COLLEGE

STOIBER, RICHARD E; *MASAYA VOLCANO, NICARAGUA, VOLCANOLOGY AND THE EFFECTS OF THE HIGH LEVEL OF GAS EMISSION (12R-8025719*)*; 12 MONTHS $12,000

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

HANEY, JAMES F; *ROLE OF ZOOPLANKTON GRAZING IN THE REGULATION OF PHYTOPLANKTON DENSITY AND PRODUCTION IN LAKE TITICACA (INT-8018741)*; 12 MONTHS $17,490

NEW JERSEY

AMERICAN ASTRONOMICAL SOCIETY

BOYCE, PETER B; *GROUP TRAVEL FOR U. S. PARTICIPANTS IN FOREIGN ASTRONOMICAL MEETINGS; VARIOUS COUNTRIES; MARCH - OCTOBER 1981 (INT-8100600)*; 12 MONTHS $25,500

AMERICAN FEDERATION OF INFO PROCESSING SOC

HAMBLEN, JOHN W; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 3RD WORLD CONFERENCE ON COMPUTERS IN EDUCATION OF THE INT'L FEDERATION FOR INFO. PROCESSING; LAUSANNE, SWITZERLAND; 7/27-31/81 (INT-8107588)*; 9 MONTHS $14,000

COMPUTER HORIZONS INC

FRAME, J D; *INSTITUTIONAL RESEARCH ACTIVITY FOR 20 SUBSPECIALTIES IN LATIN AMERICAN, MIDDLE EASTERN, AFRICAN, AND ASIAN COUNTRIES (INT-7721526 A04)*; $12,662

HISTORY OF SCIENCE SOCIETY

HOLMES, FREDERIC L; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE XVITH INTERNATIONAL CONGRESS AND THE GENERAL ASSEMBLY OF THE DIV. OF HISTORY OF SCIENCE; BUCHAREST, ROMANIA; 8/26-9/3/81 (INT-8112042)*; 6 MONTHS $9,000

PRINCETON UNIVERSITY

PRUD'HOMME, ROBERT K, AND SMALL, HAMISH; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: FUNDAMENTALS AND APPLICATIONS OF HYDRODYNAMIC CHROMATOGRAPHIC SEPARATIONS (CPE-8003120*)*; 12 MONTHS $3,000

KOBERSTEIN, JEFFREY T; *THEORETICAL AND EXPERIMENTAL INVESTIGATIONS OF MICROPHASE SEPARATION IN BLOCK COPOLYMERS AND THEIR BLENDS WITH HOMOPOLYMERS (INT-8018889)*; 12 MONTHS $3,000

SCHOWALTER, WILLIAM R; *GROUP TRAVEL FOR U. S. PARTICIPANTS IN AN INTERNATIONAL SYMPOSIUM ON INTERACTIONS OF PARTICLES IN COLLOIDAL DISPERSIONS; CANBERRA, AUSTRALIA; MARCH 16-21, 1981 (INT-8021675)*; 6 MONTHS $13,000

FISCHER, ALFRED G; *INVESTIGATIONS INTO CRETACEOUS-PALEOGENE HISTORY (INT-8105265)*; 36 MONTHS $30,000

RUTGERS UNIVERSITY-NEWARK CAMPUS

KOMISARUK, BARRY R; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN AN INTERNATIONAL SYMPOSIUM ON STUDIES OF REPRODUCTIVE BEHAVIOR IN ANIMALS; JERUSALEM, ISRAEL; JUNE 21-26, 1981 (INT-8100334)*; 6 MONTHS $3,200

RUTGERS UNIVERSITY

PRICE, CARL A; *BIOCHEMISTRY AND MOLECULAR BIOLOGY OF AMYLOPLASTS (INT-8020233)*; 24 MONTHS $15,000

NEW MEXICO

NEW MEXICO STATE UNIVERSITY-AGRICULTURAL EXPERIMENT STATION

HSI, DAVID C; *PEANUT HYBRIDIZATION AND EVALUATION OF PROGENY GENERATIONS (INT-8020551)*; 24 MONTHS $17,436

TRAVEL AWARD

WARD, TIMOTHY J; *TRAVEL TO ATTEND THE INTERNATIONAL SYMPOSIUM ON EROSION AND SEDIMENT TRANSPORT IN PACIFIC RIM STEEPLANDS; CHRISTCHURCH, NEW ZEALAND; JANUARY 25-31, 1981 (INT-8100931)*; 6 MONTHS $1,400

NEW YORK

AMERICAN PHYSICAL SOCIETY

DIEBOLD, ROBERT E; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 1981 INTERNATIONAL SYMPOSIUM ON LEPTON AND PHOTON INTERACTIONS AT HIGH ENERGIES; BONN, WEST GERMANY; AUGUST 24 - 29, 1981 (INT-8108231)*; 6 MONTHS $12,000

ISRAEL, MARTIN H; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 17TH INTERNATIONAL COSMIC RAY CONFERENCE, PARIS, FRANCE, JULY 13 - 25, 1981 (INT-8109497)*; 6 MONTHS $12,000

BROOKHAVEN NATIONAL LABORATORY

YUAN, LUKE C; *INVESTIGATION OF TRANSITION RADIATION DETECTORS AND THEIR APPLICATIONS (PHY-7916503 A01*)*; 12 MONTHS $15,000

COLUMBIA UNIVERSITY

SOMASUNDARAN, PONISSERI; *THE ROLE OF SURFACTANTS IN FLOTATION AND OIL RECOVERY (INT-8004329)*; 36 MONTHS $59,340

LIPPARD, STEPHEN J; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE INTERNATIONAL CONFERENCE ON THE CHEMISTRY OF THE PLATINUM GROUP METALS; BRISTOL, ENGLAND; JULY 19 - 24, 1981 (INT-8108047)*; 6 MONTHS $8,000

CORNELL UNIVERSITY

BASSETT, WILLIAM A; *OLIVINE - SPINEL PHASE TRANSFORMATION MECHANISMS (INT-8022363)*; 36 MONTHS $7,000

SETTER, TIMOTHY L; *PHOTOSYNTHESIS AND PHOTOSYNTHATE PARTITIONING IN PIGEON PEAS (INT-8025899)*; 24 MONTHS $29,731

MAYER, JAMES W; *GROUP TRAVEL FOR U. S. PARTICIPANTS IN THE CONFERENCE ON ION BEAM ANALYSIS; SYDNEY, AUSTRALIA; FEBRUARY 16 - 20, 1981 (INT-8100599)*; 6 MONTHS $9,500

SCHERAGA, HAROLD A; *U.S. - JAPAN SEMINAR: SELF-ORGANIZATION OF PROTEIN MOLECULES/ITHACA, NEW YORK, AUGUST, 1981 (INT-8111749)*; 9 MONTHS $6,680

WHARTON, CHARLES B, AND JOHN, P I; *SFC AWARD (INDIAN CURRENCY AND US DOLLARS) FOR INVESTIGATION OF RELATIVISTIC ELECTRON BEAM - PLASMA INTERACTION (INT-8115451*)*; 36 MONTHS $32,219

CLARDY, JON; *STRUCTURAL STUDIES OF NEW NATURAL PRODUCTS FROM CHINA (INT-8117327)*; 24 MONTHS $33,962

MEINWALD, JERROLD; *BIO-ACTIVE NATURAL PRODUCTS FROM CHINA (INT-8117801)*; 24 MONTHS $48,292

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

NERODE, ANIL, AND SHORE, RICHARD; *RECURSIVE ALGEBRA AND ANALYSIS (INT-8017073)*; 36 MONTHS $15,600

INSTITUTE OF ELECTRICAL & ELECTRONIC ENGRS INC

SORENSON, HAROLD W; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 1981 TRIENNIAL CONGRESS OF THE INTERNATIONAL FEDERATION OF AUTOMATIC CONTROL; KYOTO, JAPAN; AUGUST 1981 (INT-8112355)*; 6 MONTHS $12,500

NEW YORK UNIVERSITY-MEDICAL CENTER

MAAS, WERNER K; *COOPERATIVE RESEARCH ON ISOLATED STRAINS OF ENTEROTOXIGENIC E. COLI (INT-8020261)*; 24 MONTHS $32,600

NEW YORK UNIVERSITY

LEVY, PETER M; *THEORY OF ORBITAL EFFECTS IN RARE-EARTH COMPOUNDS (DMR-7825008 A02*)*; 12 MONTHS $23,200

FUSFELD, HERBERT I; *CONFERENCE ON INDUSTRIAL PRODUCTIVITY AND INTERNATIONAL TECHNICAL COOPERATION; PARIS, FRANCE; NOVEMBER 20 AND 21, 1980 (INT-8019975)*; 9 MONTHS $32,085

PUBLIC HEALTH RESEARCH INSTITUTE OF NEW YORK

NOVICK, RICHARD P; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN EMBO WORKSHOP ON THE COMPARATIVE ANATOMY OF DNA REPLICATION AND ITS CONTROL, DOURDAN, FRANCE, OCTOBER 5-8, 1981 (INT-8118584)*; 6 MONTHS $5,000

RENSSELAER POLYTECHNIC INSTITUTE

PREISS, IVOR L; *THE DEVELOPMENT OF AN ABSOLUTE X-RAY FLUORESCENCE METHOD FOR THE DETERMINATION OF METALS IN CATALYTIC MATERIALS (INT-8018323)*; 24 MONTHS $32,134

ROCKEFELLER UNIVERSITY

MAURO, ALEXANDER; *ELECTROPHYSIOLOGICAL STUDY OF EXTRAOCULAR PHOTORECEPTORS IN CEPHALOPODS (INT-8105104)*; 36 MONTHS $21,892

SLOAN KETTERING INSTITUTE FOR CANCER RESEARCH

KINCADE, PAUL W; *MONOCLONAL ANTIBODIES AS PROBES OF B-LYMPHOCYTE HETEROGENEITY (INT-8017292)*; 24 MONTHS $4,886

STATE UNIVERSITY AT ALBANY

YENCHA, ANDREW J; *ENERGY TRANSFER PROCESSES BETWEEN METASTABLE RARE GAS ATOMS AND GASEOUS AND CONDENSED PHASE MOLECULES (INT-8020765)*; 12 MONTHS $9,990

STATE UNIVERSITY AT STONY BROOK

CESS, ROBERT D; *STUDIES IN RADIATION HEAT TRANSFER (MEA-8012954 A01*)*; 12 MONTHS $18,000

OWEN, TOBIAS C; *THE COMPOSITION AND STRUCTURE OF PLANETARY ATMOSPHERES (INT-8020417)*; 36 MONTHS $6,000

TRAVEL AWARD

NAG, MONI; *TRAVEL TO ATTEND THE INTERCONGRESS 1981 OF INTERNATIONAL UNION OF ANTHROPOLOGICAL AND ETHNOLOGICAL SCIENCES (IUAES); AMSTERDAM, NETHERLANDS; APRIL 23 - 26, 1981 (INT-8026474)*; 6 MONTHS $670

SARGENT, ROBERT G; *TRAVEL TO ATTEND THE NINTH TRIENNIAL INTERNATIONAL CONFERENCE ON OPERATIONAL RESEARCH; HAMBURG, GERMANY; JULY 20 - 24, 1981 (INT-8108052)*; 6 MONTHS $950

YESHIVA UNIVERSITY-ALBERT EINSTEIN COLLEGE OF MEDICINE

HURWITZ, JERARD; *REPLICATION OF DNA IN PROCARYOTES AND EUCARYOTES (INT-8018468)*; 24 MONTHS $34,800

NORTH CAROLINA

DUKE UNIVERSITY

PALMER, RICHARD A; *PHOTOACOUSTIC SPECTROSCOPY (INT-8018853)*; 12 MONTHS $10,000

INDIVIDUAL AWARD

MOYER, JAMES W; *VIRUS DISEASES OF SWEET POTATO (INT-8108954)*; 6 MONTHS $1,662

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

CHANG, HOU-MIN; *MICROBIAL DEGRADATION OF LIGNIN (INT-8017062)*; 24 MONTHS $5,400

ATTAR, A; *STRUCTURE, DISTRIBUTION, AND REACTIVITY OF SULFUR, OXYGEN AND NITROGEN FUNCTIONAL GROUPS IN COAL; APPLICATIONS TO COAL LIQUEFACTION (INT-8019051)*; 24 MONTHS $4,200

PALMOUR, HAYNE; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE FIFTH INTERNATIONAL ROUNDTABLE CONFERENCE ON SINTERING; PORTOROZ, YUGOSLAVIA - SEPT. 7-10, 1981 (INT-8117636)*; 6 MONTHS $3,000

CHOU, WUSHOW; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE SEVENTH DATA COMMUNICATIONS SYMPOSIUM; MEXICO CITY, MEXICO OCT 27-29, 1981 (INT-8118586)*; 6 MONTHS $7,500

NORTH DAKOTA

UNIVERSITY OF NORTH DAKOTA MAIN CAMPUS

DANDO, WILLIAM A, AND MOWER, ROLAND D; *U.S.-COLOMBIA SEMINAR ON THE APPLICATION OF REMOTE SENSING TECHNOLOGIES TO REGIONAL DEVELOPMENT PROBLEMS; BOGOTA, COLOMBIA; JUNE 1981 (INT-8025900)*; 6 MONTHS $13,700

OHIO

BATTELLE MEMORIAL INSTITUTE

FESSLER, RAYMOND R; *INVESTIGATION OF PLASMA-ARC REMELTING FOR PRODUCING HIGHNITROGEN STAINLESS STEELS AND AS A SUBSTITUTE FOR VACUUM-ARC REMELTING OR ELECTROSLAG REMELTING (DMR-7924272 A01*)*; 10 MONTHS $70,300

OHIO STATE UNIVERSITY

ROMANOWSKI, THOMAS A, AND REAY, NEVILLE W; *HIGH ENERGY PHYSICS SEARCH FOR LONG-LIVED PARTICLES RESULTING FROM NEUTRINO INTERACTIONS IN A TAGGED EMULSION SPECTROMETER (INT-8016508)*; 24 MONTHS $14,000

RAO, K N; *SFC AWARD (IN INDIAN CURRENCY & U.S. DOLLARS) FOR A WORKSHOP ON HIGH RESOLUTION MOLECULAR SPECTROSCOPY IN INDIA; INDO-U.S. PROG. ON SCI. & TECH.; NEW DELHI, DEC. 11-21, 1981 (INT-8025183*)*; 12 MONTHS $474

OHIO UNIVERSITY

MAIER, SIEGFRIED; *MORPHOLOGICAL AND PHYSIOLOGICAL CHARACTERIZATION OF THREE NEW MARINE THIOPLOCA SPECIES FROM CHILE (INT-8017749)*; 24 MONTHS $10,132

TRAVEL AWARD

ROSEGGER, GERHARD; *TRAVEL TO ATTEND THE SECOND INTERNATIONAL WORKING SEMINAR ON PRODUCTION ECONOMICS; LANS/INNSBRUCK, AUSTRIA; FEBRUARY 16 - 20, 1981 (INT-8026473)*; 6 MONTHS $1,165

UNIVERSITY OF CINCINNATI-COLLEGE OF MEDICINE

FOULKES, E C; *JOINT JAPAN - U. S. TO BE HELD AT THE UNIVERSITY OF CINCINNATI MARCH 22 TO MARCH 27 ON THE BIOLOGICAL FUNCTIONS OF METTALLOTHIOEIN (INT-8107105)*; 6 MONTHS $5,971

UNIVERSITY OF DAYTON

GRANT, JOHN T; *U. S. - AUSTRALIA JOINT SEMINAR/ WORKSHOP ON THE 'COMPARISON OF ELECTRON AND ION BEAM METHODS FOR SURFACE ANALYSIS;' CANBERRA, AUSTRALIA, FEBRUARY 23 THROUGH 27, 1981 (INT-8106723)*; 3 MONTHS $19,080

UNIVERSITY OF TOLEDO

BOPP, BERNARD W; *DISCOVERY AND SPECTROSCOPIC STUDY OF SOUTHERN HEMISPHERE RS CVN STARS (INT-8023967)*; 6 MONTHS $4,710

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

ALSPACH, DALE E; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN A CONFERENCE ON THE THEORY OF BANACH SPACES; OBERWOLFACH, FEDERAL REPUBLIC OF GERMANY; AUGUST 1981 (INT-8100706)*; 8 MONTHS $3,500

PENNSYLVANIA

AMERICAN SOCIETY OF ICHTHYLGSTS & HERPETLGSTS

ROSEN, DONN E; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE INTERNATIONAL CONFERENCE ON SYSTEMATICS AND EVOLUTION OF INDO-PACIFIC CORAL REEF FISHES; SYDNEY, AUSTRALIA, SEPTEMBER 7 - 11, 1981 (INT-8100346)*; 7 MONTHS $12,200

DREXEL UNIVERSITY

HERCZFELD, PETER R; *SFC AWARD (IN INDIAN CURRENCY AND U.S. DOLLARS) FOR STUDIES IN MAGNETO HYDRO DYNAMICS (INT-8026034*)*; 36 MONTHS $10,400

HAHNEMANN MEDICAL COLLEGE AND HOSPITAL

OHNISHI, S T; *STUDIES ON THE UNUSUAL MEMBRANE PROPERTIES OF THE LAMPREY ERYTHROCYTE (INT-8017299)*; 24 MONTHS $10,000

OHNISHI, S T; *U.S. - JAPAN JOINT SEMINAR: MECHANISM OF GATED CALCIUM TRANSPORT ACROSS BIOLOGICAL MEMBRANES/HONOLULU, HAWAII/ AUGUST, 1981 (INT-8111747)*; 9 MONTHS $9,890

PENNSYLVANIA STATE UNIVERSITY

ROY, DELLA M; *CEMENT HYDRATION PROCESSES AND MODIFICATIONS (INT-8011922)*; 36 MONTHS $51,581

SLIPPERY ROCK STATE COLLEGE

ARCHIBALD, PATRICIA A; *JOINT U. S. - MEXICO PHYCOLOGICAL SEMINAR - WORKSHOP; NOVEMBER 24 - 28, 1980; MEXICO (INT-8019611)*; 4 MONTHS $9,000

TEMPLE UNIVERSITY-SCHOOL OF MEDICINE

SHOCKMAN, GERALD D; *U. S. - AUSTRALIA JOINT WORKSHOP ON THE 'CHEMISTRY AND BIOLOGICAL ACTIVITY OF BACTERIAL SURFACE AMPHIPHILES;' NEW ORLEANS, LOUISIANA, JANUARY 12 THROUGH 16, 1981 (INT-8025349)*; 6 MONTHS $10,506

TEMPLE UNIVERSITY

LOSCIUTO, LEONARD A; *A SURVEY OF INTERNATIONAL PROGRAMS (INT-8021596 A01)*; 15 MONTHS $11,987

UNIVERSITY OF PENNSYLVANIA

MACDIARMID, ALAN G, AND HEEGER, ALAN J; *A SYNTHETIC AND STRUCTURAL STUDY OF POLYACETYLENE AND ITS SEMICONDUCTING AND METALLIC DERIVATIVES (INT-8017395)*; 24 MONTHS $19,576

HOCHSTRASSER, ROBIN M; *LASER AND THEORETICAL STUDIES OF MOLECULAR DYNAMICS IN THE CONDENSED PHASE (INT-8103027)*; 6 MONTHS $16,000

POLAND

CENTRAL INST FOR SCIENTIFIC TECH & ECON INFO

DERENTOWICZ, MIECZYSLA W; *PROCESS IN ENGLISH FOREIGN SCIENTIFIC AND TECHNOLOGICAL INFORMATION (INT-8122022)*; 3 MONTHS $3,150

PUERTO RICO

UNIVERSITY OF PUERTO RICO SYSTEM OFFICE-CENTER FOR ENERGY AND ENVIRONMENT RESEARCH

BONNET, JUAN A, AND HARRENSTEIN, HOWARD P; *WORKSHOPS ON ALTERNATIVE ENERGY SCIENCE AND ENGINEERING IN THE CARIBBEAN: BRIDGETOWN, BARBADOS, SEPTEMBER 1981; AND OCHO RIOS, JAMAICA, DECEMBER 1981 (INT-8025593)*; 12 MONTHS $30,000

UNIVERSITY OF PUERTO RICO, RIO PIEDRAS

BLUM, LESSER; *WATER STRUCTURE AND IONIC SOLVATION (INT-8015670)*; 36 MONTHS $30,120

RHODE ISLAND

AMERICAN MATHEMATICAL SOCIETY

LEVEQUE, WILLIAM J; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE INTERNATIONAL CONGRESS OF MATHEMATICIANS; WARSAW, POLAND - AUGUST 1982 (INT-8116858)*; 12 MONTHS $60,000

BROWN UNIVERSITY

LOFERSKI, JOSEPH J; *HIGH EFFICIENCY, MULTI-SEMICONDUCTOR SOLAR CELLS BASED ON ALLOY TERNARIES (INT-8018584)*; 24 MONTHS $9,722

FRIED, HERBERT M; *U.S.-FRANCE SEMINAR ON THEORETICAL ASPECTS OF QUANTUM CHROMODYNAMICS: JUNE 1981 IN MARSEILLE, FRANCE (INT-8105280)*; 6 MONTHS $16,000

UNIVERSITY OF RHODE ISLAND

YOUNGKEN, HEBER W; *A BOTANICAL AND CHEMICAL INVESTIGATION OF TOXIC EGYPTIAN TERRESTRIAL AND MARINE WEEDS (INT-7811289 A02)*; 12 MONTHS $11,653

BROWN, PHYLLIS R; *COMPARATIVE STUDIES OF NUCLEOTIDE METABOLISM IN MARSUPIAL AND PLACENTAL MAMMALS (INT-7826668 A02)*; 12 MONTHS $4,737

TRAXLER, RICHARD W; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE FIFTH INTERNATIONAL BIODETERIORATION SYMPOSIUM; ABERDEEN, SCOTLAND - SEPTEMBER 6-12, 1981 (INT-8117527)*; 6 MONTHS $5,742

TENNESSEE

UNIVERSITY OF TENNESSEE AT CHATTANOOGA

EDWARDS, MAURICE; *IPA MOBILITY ASSIGNMENT (MAURICE EDWARDS) (INT-8020538 A01)*; 11 MONTHS $1,006

UNIVERSITY OF TENNESSEE AT KNOXVILLE

PETERSEN, RONALD H; *THE HIGHER FUNGI OF NEW ZEALAND: A STUDY OF BASIDIOMYCETES, WITH EMPHASIS ON THE CLAVARIOID AND CANTHARELLOID FUNGI (INT-8112617)*; 6 MONTHS $8,663

UNIVERSITY OF TENNESSEE CENTER FOR HEALTH SCS

UZMAN, BETTY G; *NERVE REGENERATION IN SEMIPERMEABLE TUBES (INT-8018933)*; 24 MONTHS $13,000

TEXAS

RICE UNIVERSITY

TAPIA, R A; *RESEARCH WORKSHOP ON NUMERICAL ANALYSIS, MEXICO CITY (INT-8019312)*; 12 MONTHS $6,955

TEXAS A & M UNIVERSITY

AGUILERA, JOSE M; *COOPERATIVE STUDY: EXTRUSION COOKING OF SORGHUM (INT-8018380*)*; 24 MONTHS $19,812

SCHWEIKERT, EMILE A; *ULTRA-TRACE DETECTION OF HYDROGEN IN SOLIDS (INT-8106132)*; 24 MONTHS $11,733

TRAVEL AWARD

FOWLER, DAVID W; *TRAVEL TO ATTEND THE THIRD INTERNATIONAL CONGRESS ON POLYMER IN CONCRETE; KORIYAMA, JAPAN; MAY 13 - 15, 1981 (INT-8108050)*; 6 MONTHS $1,500

SPANOS, POL; *TRAVEL TO ATTEND THE NINTH INTERNATIONAL CONFERENCE ON NONLINEAR OSCILLATIONS; KIEV, USSR; AUGUST 30 - SEPTEMBER 6, 1981 (INT-8112356)*; 6 MONTHS $1,500

ALLISON, ROBERT D; *TRAVEL TO ATTEND THE FIFTH INTERNATIONAL CONFERENCE ON ELECTRICAL BIO-IMPEDANCE; TOKYO, JAPAN, AUGUST 24-26, 1981 (INT-8112836)*; 6 MONTHS $1,189

JONES, ROBERT M; *TRAVEL TO ATTEND THE INTERNATIONAL CONFERENCE ON COMPOSITE STRUCTURES; PAISLEY, SCOTLAND, SEPTEMBER 16 - 18, 1981 (INT-8115504)*; 6 MONTHS $1,035

UNIV OF TEXAS AT AUSTIN

VANDEN BOUT, PAUL A, AND DAVIS, JOHN H; *JOINT US-FRANCE PROGRAM OF INTERSTELLAR MOLECULAR SPECTROSCOPY (INT-8020431)*; 12 MONTHS $4,000

DE VAUCOULEURS , G; *PHOTOMETRY OF GALAXIES (INT-8022847)*; 24 MONTHS $21,240

VANDEN BOUT, PAUL A; *A CENTIMETER- AND MILLIMETER-WAVELENGTH STUDY OF GALACTIC STAR FORMATION (INT-8102957)*; 12 MONTHS $11,303

PETTIT, ROWLAND; *U.S.-U.K. WORSHOP ON HYDROGEN/CARBON MONOXIDE CHEMISTRY, CAMBRIDGE, ENGLAND; SEPTEMBER 9-12, 1981 (INT-8110697)*; 12 MONTHS $13,572

JEFFERYS, WILLIAM H; *INVESTIGATIONS INTO THE STABILITY OF THE SOLAR SYSTEM (INT-8117457)*; 12 MONTHS $13,266

BARNES, THOMAS G; *RADIAL VELOCITIES AND DISTANCES OF RR LYRAE VARIABLE STARS (INT-8117487)*; 24 MONTHS $22,959

UNIV OF TEXAS AT DALLAS

HANSON, WILLIAM B; *COORDINATED SATELLITE MEASUREMENTS OF IONOSPHERIC PROPERTIES (INT-8026551)*; 36 MONTHS $63,197

UNIV OF TEXAS AT EL PASO

HERNDON, WILLIAM C; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE 4TH INTERNATIONAL SYMPOSIUM ON NOVEL AROMATIC COMPOUNDS; JERUSALEM, ISRAEL; AUGUST 30 - SEPTEMBER 4, 1981 (INT-8026468)*; 9 MONTHS $6,000

UTAH

UNIVERSITY OF UTAH

DAVIDSON, DIANE W; *GRANIVORY AND MYRMECOCHORY IN THE AUSTRALIAN ARID ZONE (INT-8010801)*; 7 MONTHS $21,822

SYMKO, OREST G; *PHOTO ACOUSTIC SPECTROSCOPY AT LOW TEMPERATURES (INT-8018827)*; 24 MONTHS $12,800

HERBST, JOHN A, AND MILLER, JAN D; *SFC AWARD (IN INDIAN CURRENCY & U.S. DOLLARS) FOR A WORKSHOP ON INDO-U.S. COOPERATION IN MINERAL PROCESSING AND CHEMICAL METALLURGY, UDAIPUR, INDIA, DEC. 1981 (INT-8100422*)*; 12 MONTHS $8,500

LUTY, FRITZ; *EVOLUTION OF MOLECULAR ORDER AND PHASE-TRANSITIONS IN MIXED ALKALI-HALIDE-CYANIDE CRYSTALS (INT-8109186)*; 24 MONTHS $19,360

VIRGINIA

INSTITUTE FOR ATMOS OPTICS & REMOTE SENSING

DEEPAK, ADARSH; *SFC AWARD (IN INDIAN CURRENCY) FOR A WORKSHOP ON APPLICATIONS OF REMOTE SENSING FOR RICE PRODUCTION, FALL 1981, HYDERABAD, INDIA (INT-8018606*)*; 12 MONTHS $600

OLD DOMINION UNIVERSITY

JOHNSON, DONALD R; *JOINT ANALYSIS OF MONSOON EXPERIMENT - KENYA (INT-8024683)*; 12 MONTHS $27,402

SRI INTERNATIONAL-STRATEGIC STUDIES CENTER

FOSTER, RICHARD B; *SUPPORT OF INTERNATIONAL SCIENCE ACTIVITIES (29T-7818699 A06*)*; 15 MONTHS $14,140

UNIVERSITY OF VIRGINIA

FREDRICK, LAURENCE W, AND IANNA, PHILIP A; *PARALLAXES AND PROPER MOTIONS OF SELECTED STARS (AST-7921542 A01*)*; 12 MONTHS $12,56›

ANDREWS, LESTER S; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE INTERNATIONAL CONFERENCE ON MATRIX ISOLATION SPECTROSCOPY; NOTTINGHAM, ENGLAND; JULY 21 - 24, 1981 (INT-8107513)*; 6 MONTHS $8,000

VIRGINIA POLYTECHNIC INSTITUTE

ZWEIFEL, PAUL F; *GROUP TRAVEL FOR U. S. PARTICIPANTS IN THE 6TH INTERNATIONAL CONGRESS FOR MATHEMATICAL PHYSICS; WEST BERLIN; AUGUST 11-21, 1981 (INT-8024147)*; 6 MONTHS $13,250

TROWER, W PETER, AND FICENEC, JOHN R; *CHARMED PARTICLE LIFETIMES (INT-8026058)*; 12 MONTHS $19,366

TROWER, W P; *SFC AWARD (PAKISTANI CURRENCY) FOR BLOCK TRAVEL GRANT FOR U.S. PARTICIPATION IN THE SIXTH INTERNATIONAL SUMMER COLLEGE ON PHYSICS AND CONTEMPORARY NEEDS - JUNE 1981 (INT-8109017*)*; 6 MONTHS $500

WASHINGTON

UNIVERSITY OF WASHINGTON

LORD, JERE J; *GALACTIC ELECTRONS, ENERGY SPECTRUM OVER 300 GEV (INT-8017317)*; 12 MONTHS $4,964

BOYNTON, PAUL E; *THE EVOLUTION OF STRUCTURE IN THE UNIVERSE (INT-8018847*)*; 24 MONTHS $23,061

LORD, JERE J; *HIGH ENERGY NEUTRINO PRODUCTION OF PARTICLES HAVING SHORT HALF-LIVES (INT-8100233)*; 24 MONTHS $12,549

CHARLSON, ROBERT J; *THE ATMOSPHERIC CYCLE OF GRAPHITIC CARBON AEROSOLS (INT-8102992)*; 24 MONTHS $33,338

VILCHES, OSCAR E; *EXPERIMENTAL STUDIES WITH PHYSISORBED ATOMS AND MOLECULES (INT-8103014)*; 24 MONTHS $6,420

WISCONSIN

TRAVEL AWARD

HUANG, T C; *TRAVEL TO ATTEND THE NINTH INTERNATIONAL CONFERENCE ON NONLINEAR OSCILLATIONS; KIEV, USSR; AUGUST 30- SEPT. 6, 1981 (INT-8113670)*; 6 MONTHS $975

UNIVERSITY OF WISCONSIN-MADISON-

DELUCA, HECTOR F; *STUDY OF FLUORINATED ANALOGS OF VITAMIN D (INT-8016902)*; 24 MONTHS $10,142

UNIVERSITY OF WISCONSIN-MADISON

COOPER, STUART L; *SHORT SEGMENT BLOCK POLYMERS: SYNTHESIS, CHARACTERIZATION, AND BIOMEDICAL APPLICATIONS (INT-8016523)*; 24 MONTHS $12,500

YUILL, THOMAS M; *STUDIES ON THE TRANSMISSION OF VENEZUELAN EQUINE ENCEPHALITIS BY SIMULIUM METALLICUM (INT-8103036)*; 24 MONTHS $19,990

ROBBIN, ALICE; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN AN INTERNATIONAL CONFERENCE ON THE IMPACT OF COMPUTERIZATION ON SOCIAL SCIENCE RESEARCH; GRENOBLE,, FRANCE - SEPT 14-18, 1981 (INT-8108054)*; 6 MONTHS $5,950

DOVE, WILLIAM F; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN FIFTH EUROPEAN PHYSARUM MEETING, KRAKOW, POLAND, JULY 13-18, 1981 (INT-8117195)*; 6 MONTHS $4,160

WEST, ROBERT; *GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE VITH INTERNATIONAL SYMPOSIUM ON ORGANOSILICON CHEMISTRY, BUDAPEST, HUNGARY, AUGUST 23-29, 1981 (INT-8117637)*; 6 MONTHS $3,200

OCEAN DRILLING, US ANTARCTIC, AND OTHER PROGRAMS

OCEAN DRILLING PROGRAMS

CALIFORNIA

SANTA FE ENGINEERING SERVICE CO

SPRINGETT, CHARLES N; *ENGINEERING AND MANAGEMENT SUPPORT FOR THE OCEAN MARGIN DRILLING PROGRAM (ODP-8100028)*; 24 MONTHS $625,000

SPRINGETT, CHARLES N; *ENGINEERING AND MANAGEMENT SUPPORT FOR OCEAN MARGIN DRILLING PROGRAM (ODP-8100028 A01)*; $1,406,250

SPRINGETT, CHARLES N; *ENGINEERING & MANAGEMENT SUPPORT FOR OCEAN MARGIN DRILLING PROGRAM (16P-8100028 A02)*; $22,020

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

SAXON, DAVID S; *DRILLING OF SEDIMENTS IN THE PACIFIC AND ATLANTIC OCEANS AND ADJACENT SEAS (ODP-6600025 A82)*; $3,000,000

SAXON, DAVID S; *DRILLING SEDIMENTS IN THE PACIFIC AND ATLANTIC OCEAN AND ADJACENT SEAS (ODP-6600025 A83)*; $6,000,000

SAXON, DAVID S; *DRILLING SEDIMENTS IN THE PACIFIC AND ATLANTIC OCEAN AND ADJACENT SEAS (16P-6600025 A84)*; $5,650,000

SAXON, DAVID S; *DRILLING SEDIMENTS IN THE PACIFIC AND ATLANTIC OCEAN AND ADJACENT SEAS (16P-6600025 A85)*; $142,980

DISTRICT OF COLUMBIA

DEPARTMENT OF NAVY-NAVSEA SYSTEMS COMMAND

BERNER, JACK; *TECHNICAL SUPPORT FOR CONVERSION OF GLOMAR EXPLORER FOR OCEAN MARGIN DRILLING (ODP-8008478 A02)*; $80,000

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

BERG, JOSEPH W; *SUPPORT OF THE COMMITTEE ON OCEAN MARGIN DRILLING (ODP-8121406*)*; 12 MONTHS $50,000

NEW YORK

JOINT OCEANOGRAPHIC INSTITUTIONS INC

CLOTWORTHY, JOHN H; *SUPPORT OF JOI, INC., OFFICE AND THE JOIDES ADVISORY PROGRAM, CHALLENGER (ODP-7808082 A04)*; 12 MONTHS $200,000

CLOTWORTHY, JOHN H; *SUPPORT OF JOI, INC., JOIDES OFFICE & SCIENTIFIC SERVICE PROGRAM, CHALLENGER (16P-7808082 A06)*; $198,000

CLOTWORTHY, JOHN H; *SUPPORT OF U.S. SITE SURVEY PROGRAM, CHALLENGER (ODP-7821464 A04)*; $125,000

CLOTWORTHY, JOHN H; *SUPPORT OF U.S. SITE SURVEY PROGRAM, CHALLENGER (ODP-7821464 A05)*; 12 MONTHS $1,635,000

CLOTWORTHY, JOHN H; *SCIENTIFIC ADVICE & PLANNING & GEOLOGICAL/GEOPHYSICAL DATA COORDINATION FOR THE OCEAN MARGIN DRILLING PROGRAM (ODP-8000465 A03)*; 12 MONTHS $1,000,000

CLOTWORTHY, JOHN H; *SCIENTIFIC ADVICE & PLANNING & GEOLOGICAL/GEOPHYSICAL DATA COORDINATION FOR THE OCEAN MARGIN DRILLING PROGRAM (16P-8000465 A04)*; $500,000

CLOTWORTHY, JOHN H; *SCIENTIFIC SERVICE & PLANNING & GEOLOGICAL/GEOPHYSICAL DATA COORDINATION FOR THE OCEAN MARGIN DRILLING PROGRAM (16P-8000465 A06)*; $1,205,977

OREGON

OREGON STATE UNIVERSITY

SCHRADER, HANS J; *LAMINATED SEDIMENTS OF THE CENTRAL GULF OF CALIFORNIA: A STUDY OF CLIMATIC AND SEDIMENTOLOGIC INFORMATION PRESERVED OVER THE LAST 150,000 YEARS (ATM-7919458 A01*)*; 12 MONTHS $25,000

VIRGINIA

DEPARTMENT OF NAVY-OFFICE OF NAVAL RESEARCH

SALKOVITZ, E I; *SUPPORT OF THE NATIONAL ACADEMY OF ENGINEERING MARINE BOARD VIA THE OFFICE OF NAVAL RESEARCH (OCE-8006009 A01*)*; 12 MONTHS $2,000

U.S. ANTARCTIC RESEARCH PROGRAM

ALASKA

UNIVERSITY OF ALASKA FAIRBANKS CAMPUS-GEOPHYSICAL INSTITUTE

AKASOFU, SYUN-ICHI; *A STUDY OF THE MIDDAY AURORAS AT THE SOUTH POLE STATION (DPP-7820630 A02)*; 12 MONTHS $37,380

JAYAWEERA, KOLF, AND AHLNAS, KRISTINA; *ANTARCTIC SEA ICE STUDIES USING HIGH RESOLUTION SATELLITE IMAGERY FROM MCMURDO (DPP-8024636)*; 12 MONTHS $53,785

WENDLER, GERD; *ON THE KATABATIC WIND IN ANTARCTICA (DPP-8100161)*; 12 MONTHS $82,658

ARIZONA

ARIZONA STATE UNIVERSITY

STUMP, EDMUND, AND HOLLOWAY, JOHN R; *PETROLOGY AND REGIONAL GEOLOGY OF EARLY TO MIDDLE PALEOZOIC MAGMATIC ROCKS, NORTHERN VICTORIA LAND, ANTARCTICA (DPP-8019991*)*; 12 MONTHS $102,365

UNIVERSITY OF ARIZONA

SCOTT, LAWRENCE B; *FEASIBILITY OF WIND TURBINE DIESEL HYBRID GENERATORS AT MCMURDO STATION (DPP-8108420)*; 6 MONTHS $67,558

CALIFORNIA

AEROSPACE CORPORATION

HOLZWORTH, ROBERT H, AND EDGAR, BRUCE C; *ELECTRODYNAMICS OF THE MIDDLE ATMOSPHERE: SUPERPRESSURE BALLOON PROGRAM (ATM-8017071*)*; 12 MONTHS $17,500

CALIFORNIA INSTITUTE OF TECHNOLOGY

PATTERSON, CLAIR C; *DETERMINATION OF LEAD IN ANTARCTIC SNOWS (DPP-8117250)*; 6 MONTHS $5,802

CALIFORNIA STATE UNIVERSITY, SACRAMENTO

PLUMMER, CHARLES C; *GEOLOGICAL INVESTIGATION OF THE BASEMENT COMPLEX IN THE USARP MOUNTAINS, NORTH VICTORIA LAND, ANTARCTICA (DPP-8019956)*; 12 MONTHS $55,276

HOLMES AND NARVER INC

JOHNSON, JAMES R; *SUPPORT SERVICES FOR THE U S ANTARCTIC RESEARCH PROGRAM R/V HERO/PALMER STATION RESEARCH SYSTEM (DPP-7403237 A26*)*; $271,330

LOCKHEED MISSILES AND SPACE COMPANY INC-LOCKHEED PALO ALTO RESEARCH LABORATORY

MENDE, STEPHEN B; *ANTARCTIC AURORAL IMAGING (DPP-8016574)*; 12 MONTHS $50,000

MENDE, STEPHEN B; *AUTOMATIC GEOPHYSICAL OBSERVATORY IN ANTARCTICA (DPP-8105624*)*; 34 MONTHS $258,144

POINT REYES BIRD OBSERVATORY

AINLEY, DAVID G; *POPULATION BIOLOGY OF SOUTH POLAR SKUAS (DPP-7920796 A01)*; 12 MONTHS $14,874

TRIVELPIECE, WAYNE, AND VOLKMAN, NICHOLAS J; *COMPARATIVE BEHAVIORAL AND ECOLOGICAL STUDIES OF PYGOSCELID PENGUINS IN ADMIRALTY BAY (DPP-8117205)*; 12 MONTHS $66,825

STANFORD UNIVERSITY

CARPENTER, DONALD L, AND KATSUFRAKIS, JOHN P; *VERY-LOW-FREQUENCY PROBING OF THE MAGNETOSPHERE FROM PALMER STATION, ANTARCTICA (DPP-7924600 A01)*; 12 MONTHS $112,000

HELLIWELL, ROBERT A; *ACTIVE AND PASSIVE VERY-LOW-FREQUENCY WAVE-PARTICLE EXPERIMENTS ON THE MAGNETOSPHERE FROM SIPLE STATION, ANTARCTICA (DPP-8022282)*; 12 MONTHS $232,552

UNIVERSITY OF CALIFORNIA, BERKELEY-BODEGA MARINE LABORATORY

RISEBROUGH, ROBERT W; *FLUXES OF SYNTHETIC ORGANIC, BIOGENIC, AND PETROLEUM-DERIVED COMPOUNDS THROUGH ANTARCTIC MARINE FOOD WEBS SUPPORTING AND DEPENDENT UPON KRILL (DPP-7722169 A02)*; 12 MONTHS $41,475

UNIVERSITY OF CALIFORNIA, DAVIS

GRAU, CHARLES R; *EGG FORMATION IN SUBPOLAR AND POLAR SEABIRDS (DPP-8100159)*; 12 MONTHS $19,291

UNIVERSITY OF CALIFORNIA, IRVINE

HUNT, GEORGE L; *MARINE BIRD DISTRIBUTION IN THE ROSS SEA (DPP-8111939)*; 12 MONTHS $14,455

UNIVERSITY OF CALIFORNIA, LOS ANGELES

KNOPOFF, LEON; *LONG PERIOD GRAVITY AND SEISMIC OBSERVATIONS AT THE SOUTH POLE (DPP-7921387 A01)*; 12 MONTHS $150,000

ERNST, WALLACE G, AND GREW, EDWARD S; *PETROLOGY OF PRECAMBRIAN CRYSTALLINE ROCKS IN ANTARCTICA (DPP-8019527)*; 12 MONTHS $43,960

SCHUBERT, GERALD; *SHEAR HEATING INSTABILITY IN GLACIERS AND ICE SHEETS: A POSSIBLE TRIGGERING MECHANISM FOR THE INCEPTION OF ICE AGES (DPP-8023723)*; 12 MONTHS $28,103

HAMNER, WILLIAM M; *THE SCHOOLING BEHAVIOR OF ANTARCTIC KRILL (DPP-8023851)*; 12 MONTHS $129,682

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

HOLM-HANSEN, OSMUND; *A MULTIDISCIPLINARY STUDY OF THE EASTERN SCOTIA SEA (DPP-7921295 A01)*; $17,712

HOLM-HANSEN, OSMUND; *A MULTIDISCIPLINARY STUDY OF THE EASTERN SCOTIA SEA (DPP-7921295 A02)*; 12 MONTHS $219,617

KOOYMAN, GERALD L; *BIOLOGY OF WEDDELL SEALS DURING THE AUSTRAL WINTER (DPP-7923623 A01)*; 12 MONTHS $68,012

CRAIG, HARMON; *HELIUM, CO2, AND TRACE GASES IN POLAR ICE CORES (DPP-8019767)*; 12 MONTHS $88,355

SHOR, GEORGE G; *SHIP OPERATIONS SUPPORT (OCE-8024472*)*; 12 MONTHS $968,832

UNIVERSITY OF CALIFORNIA, SAN DIEGO

DELACA, TED E; *PHYSIOLOGICAL ECOLOGY OF BENTHIC SHALLOW WATER FORAMINIFERA IN MCMURDO SOUND, ANTARCTICA: A MODEL FOR EVALUATING THE ECOLOGICAL SIGNIFICANCE OF FORAMINIFERA IN THE DEEP-SEA (DPP-8003432 A01)*; 12 MONTHS $107,559

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

ROSS, ROBIN M, QUETIN, LANGDON B, AND COX, JAMES L; *EGG PRODUCTION AND THE SURVIVORSHIP OF LARVA OF ANTARCTIC KRILL (DPP-8020739)*; 12 MONTHS $99,356

ROBISON, BRUCE H; *THE TROPHODYNAMICS OF THE MESOPELAGIC FAUNA IN SOUTHERN DRAKE PASSAGE (DPP-8119621)*; 12 MONTHS $44,176

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

SILVER, MARY W, AND PEARSE, JOHN S; *ICE ALGAE AND PHYTOPLANKTON COMMUNITIES IN THE WEDDELL SEA (DPP-8020616)*; 18 MONTHS $103,808

UNIVERSITY OF SOUTHERN CALIFORNIA

SULLIVAN, CORNELIUS W; *A STUDY OF WINTER SURVIVAL IN POLAR SEA-ICE DIATOMS (DPP-7920802 A01)*; 12 MONTHS $36,595

COLORADO

COLORADO SCHOOL OF MINES

ASKIN, ROSEMARY A; *CRETACEOUS AND EARLY TERTIARY PALYNOLOGY OF THE JAMES ROSS ISLAND AREA, ANTARCTICA (DPP-8020095)*; 12 MONTHS $41,000

GEOLOGICAL SURVEY-GEOLOGICAL SURVEY-DENVER

ELSTON, DONALD P; *DRY VALLEY AND MCMURDO SOUND MAGNETOSTRATIGRAPHY (DPP-7907253 A02)*; 12 MONTHS $24,389

UNIVERSITY OF COLORADO AT DENVER

LEMASURIER, WESLEY E; *VOLCANIC GEOLOGY OF MARIE BYRD LAND AND ITS RELATIONSHIPS TO GLACIAL AND TECTONIC HISTORY IN WEST ANTARCTICA (DPP-8020836)*; 12 MONTHS $15,010

UNIVERSITY OF DENVER

MURCRAY, DAVID G; *MEASUREMENTS OF ATMOSPHERIC CONSTITUENTS AT THE SOUTH POLE (DPP-7920187 A01)*; 12 MONTHS $58,273

MURCRAY, DAVID G; *ATMOSPHERIC FMISSION MEASUREMENTS FROM CALIFORNIA TO THE SOUTH POLE (DPP-7924307 A01)*; 12 MONTHS $49,546

CONNECTICUT

UNIVERSITY OF CONNECTICUT

BLACK, ROBERT F; *PATTERNED GROUND STUDIES IN VICTORIA LAND, ANTARCTICA (DPP-8018562)*; 12 MONTHS $29,258

DELAWARE

FRANKLIN INSTITUTE-BARTOL RESEARCH FOUNDATION

POMERANTZ, MARTIN A; *INVESTIGATIONS OF COSMIC RAY INTENSITY VARIATIONS IN ANTARCTICA (DPP-7923218 A01)*; 12 MONTHS $169,310

DISTRICT OF COLUMBIA

AMERICAN GEOPHYSICAL UNION

SPILHAUS, A F; *PUBLICATION OF ANTARCTIC RESEARCH SERIES (DPP-8019997)*; 12 MONTHS $60,000

DEPARTMENT OF DEFENSE

PEARIGEN, JARE M; *LOGISTIC SUPPORT OF THE U.S. PROGRAM IN ANTARCTICA (DPP-7610886 A26)*; 6 MONTHS $25,000,000

PEARIGEN, JARE M; *LOGISTIC SUPPORT OF THE U.S. PROGRAM IN ANTARCTICA (DPP-7610886 A27)*; 6 MONTHS $10,000,000

PEARIGEN, JARE M; *LOGISTIC SUPPORT OF THE U.S. PROGRAM IN ANTARCTICA (DPP-7610886 A28)*; 4 MONTHS $7,900,000

KUWAMURA, FRANK K; *STANDARD GEOGRAPHIC NOMENCLATURE IN THE ANTARCTIC FOR UNITED STATES USE (DPP-7902112 A02)*; 12 MONTHS $12,340

DEPARTMENT OF TRANSPORTATION-U S COAST GUARD

COSTELLO, JOHN D; *SERVICES OF USCG ICEBREAKERS, ANTARCTIC SEASON 1980-81 (DPP-8024892*)*; 12 MONTHS $1,100,000

LIBRARY OF CONGRESS

THURONYI, GEZA T; *ABSTRACTING AND INDEXING SERVICE FOR CURRENT ANTARCTIC LITERATURE (DPP-7001013 A10)*; 12 MONTHS $132,486

NATIONAL ACADEMY OF SCIENCES

HUSHEN, W TIMOTHY; *SUPPORT FOR THE POLAR RESEARCH BOARD (29P-7913076 A04*)*; 12 MONTHS $114,520

HART, PEMBROKE J; *SUPPORT OF THE GEOPHYSICS RESEARCH BOARD (GRB) AND THE COMMITTEE ON SOLAR-TERRESTRIAL RESEARCH (CSTR) (02M-7914131 A03*)*; 12 MONTHS $2,750

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

QUAIDE, WILLIAM L; *SUPPORT OF LUNAR AND PLANETARY INSTITUTE (DPP-7919075 A01)*; 12 MONTHS $36,400

SMITHSONIAN INSTITUTION

LANDRUM, BETTY J; *RECORDING OF DATA AND SORTING OF COLLECTIONS FROM POLAR REGIONS (DPP-7413988 A09*)*; 12 MONTHS $51,960

LANDRUM, BETTY J; *COOPERATIVE SYSTEMATICS AND ANALYSES OF POLAR BIOLOGICAL MATERIALS (DPP-8020259)*; 12 MONTHS $100,213

FLORIDA

FLORIDA STATE UNIVERSITY

DEVORE, GEORGE W; *CURATORSHIP OF ANTARCTIC CORE COLLECTIONS (DPP-7519723 A05)*; 12 MONTHS $141,162

FRIEDMANN, E IMRE; *THE ECOLOGY OF ENDOLITHIC MICROORGANISMS IN THE ANTARCTIC DRY VALLEYS (DPP-8017581)*; 12 MONTHS $47,262

WISE, SHERWOOD W; *CORRELATION OF ARA ISLAS ORCADAS PISTON CORES AND D/V GLOMAR CHALLENGER DRILL CORES TAKEN IN THE REGION OF THE FALKLAND (DPP-8020382)*; 12 MONTHS $35,622

UNIVERSITY OF SOUTH FLORIDA

HOPKINS, THOMAS L; *THE TROPHODYNAMICS OF THE MESOPELAGIC FAUNA IN SOUTHERN DRAKE PASSAGE (DPP-8107510)*; 12 MONTHS $33,172

GEORGIA

UNIVERSITY OF GEORGIA

LEDBETTER, MICHAEL T, AND CIESIELSKI, PAUL F; *PALEOCEANOGRAPHY AND PALEOCLIMATOLOGY OF THE SOUTHERN OCEAN USING ISLAS ORCADAS AND DSDP CORES (DPP-8113147)*; 24 MONTHS $92,464

CIESIELSKI, PAUL F; *AN AUXILLARY PISTON CORING PROGRAM FOR THE 1981-1982 GLACIER CRUISE TO THE ROSS SEA (DPP-8113148)*; 12 MONTHS $8,661

ILLINOIS

NORTHERN ILLINOIS UNIVERSITY

MC GINNIS, LYLE D; *GRAVITY STUDIES IN THE TRANSANTARCTIC MOUNTAINS, ANTARCTICA (DPP-7821112 A03)*; 1 MONTHS $8,000

LING, HSIN-YI; *SILICEOUS BIOSTRATIGRAPHY, PALEOECOLOGY AND PALEOCLIMATOLOGY OF DEEP-SEA SEDIMENTS OFF THE PENNELL COAST OF ANTARCTICA (DPP-7911304 A01)*; 18 MONTHS $25,000

MC GINNIS, LYLE D; *SEISMIC AND GRAVITY STUDIES OF THE UPPER CRUST ALONG THE CENTRAL TRANSANTARCTIC MOUNTAINS (DPP-8019995)*; 12 MONTHS $54,415

UNIVERSITY OF ILLINOIS AT URBANA

DEVRIES, ARTHUR L; *THE EFFECT OF TEMPERATURE ON LEVELS OF GLYCOPROTEIN ANTIFREEZE IN ANTARCTIC FISHES INHABITING DIFFERENT THERMAL ENVIRONMENTS (DPP-7823462 A02)*; 12 MONTHS $71,270

KANSAS

UNIVERSITY OF KANSAS MAIN CAMPUS

ZELLER, EDWARD J; *RESOURCE AND RADIOACTIVITY SURVEY IN ANTARCTICA BY AIRBORNE GAMMA-RAY SPECTROMETRY (DPP-7721504 A03)*; 12 MONTHS $69,678

MAINE

UNIVERSITY OF MAINE, ORONO

DEARBORN, JOHN H; *FOODS AND FEEDING HABITS OF ANTARCTIC ASTEROZOAN ECHINODERMS (DPP-7921537 A01)*; 12 MONTHS $77,737

HUGHES, TERENCE J, AND TYLER, DAVID A; *A LANDSAT INVESTIGATION OF PINE ISLAND BAY GLACIOLOGY (DPP-8006503)*; 12 MONTHS $64,216

KELLOGG, THOMAS B, AND KELLOGG, DAVIDA E; *SEDIMENTS DEPOSITED BY MARINE-BASED ICE SHEETS DURING THE LAST GLACIAL MAXIMUM (DPP-8020000*)*; 12 MONTHS $41,208

BORNS, HAROLD W; *HISTORY OF THE ROSS SEA GLACIATIONS AND THE EAST ANTARCTIC ICE SHEET: EVENTS IN THE VICTORIA VALLEY AREA (DPP-8022266);* 18 MONTHS $30,568

DENTON, GEORGE H; *CENOZOIC GLACIAL HISTORY OF THE ANTARCTIC ICE SHEET (DPP-8023714);* 12 MONTHS $84,646

HUGHES, TERENCE J; *A PROPOSAL TO MODEL THE STABILITY OF THE WEST ANTARCTIC ICE SHEET (DPP-8107668);* 12 MONTHS $63,579

MARYLAND

GEOSCIENCE RESEARCH CORPORATION

BROOKS, RONALD L; *ANTARCTIC ICE-SHEET SURFACE MAPPING UTILIZING SATELLITE ALTIMETRY (DPP-8020384);* 12 MONTHS $53,946

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

HANSON, KIRBY J; *GEOPHYSICAL MONITORING FOR CLIMATE CHANGE (GMCC) IN THE ANTARCTIC (DPP-8017490);* 60 MONTHS $1

CLARK, RICHARD; *SUPPORT FOR ARGOS DATA COLLECTION AND LOCATION SYSTEM (64E-8108974*);* 13 MONTHS $10,796

UNIVERSITY OF MARYLAND, COLLEGE PARK

ROSENBERG, THEODORE J; *NATURALLY-AND ARTIFICIALLY-STIMULATED ELECTRON PRECIPITATION NEAR THE PLASMAPAUSE (DPP-8012901 A01);* 12 MONTHS $70,000

MATTHEWS, DAVID L; *ROCKET INVESTIGATION OF ELECTRON PRECIPITATION TRIGGERED BY VLF EMISSIONS (DPP-8013722 A02*);* 12 MONTHS $40,000

MASSACHUSETTS

BOSTON COLLEGE

EATHER, ROBERT H; *ANTARCTIC AURORAL IMAGING (DPP-7823513 A01);* 24 MONTHS $62,884

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SCLATER, JOHN G; *GEOPHYSICAL RESEARCH IN THE SOUTHERN OCEANS BETWEEN SOUTH AMERICA, AFRICA AND ANTARCTICA (DPP-7819279 A02);* 12 MONTHS $97,760

SMITHSONIAN INSTITUTION-ASTROPHYSICAL OBSERVATORY

FIREMAN, EDWARD L; *COMPOSITION AND CARBON 14 CONTENT OF GAS IN ICE AT THE ANTARCTIC METEORITE SITES (DPP-8025234);* 12 MONTHS $65,975

WOODS HOLE OCEANOGRAPHIC INSTITUTION

DICK, HENRY J B; *PETROLOGY AND GEOCHEMISTRY OF THE CRUST AND UPPER MANTLE OF THE SOUTHERN CIRCUMPOLAR OCEAN BETWEEN 30 W AND 30 E (DPP-7721208 A04);* 6 MONTHS $60,616

DICK, HENRY J B; *PETROLOGY AND GEOCHEMISTRY OF THE CRUST AND UPPER MANTLE OF THE SOUTHERN CIRCUMPOLAR OCEAN BETWEEN 30 DEGREES W AND 30 DEGREES E (DPP-8019769);* 12 MONTHS $91,573

CORLISS, BRUCE H; *QUATERNARY THERMOHALINE CIRCULATION IN THE SOUTHERN OCEAN (DPP-8020479);* 12 MONTHS $56,080

DICK, HENRY J B; *PARTICIPATION IN A JOINT PETROLOGY AND GEOPHYSICS CRUISE ALONG THE ANTARCTIC PLATE BOUNDARY BETWEEN 20-35OE (DPP-8112989);* 12 MONTHS $36,606

MICHIGAN

WAYNE STATE UNIVERSITY

HAMMER, WILLIAM R, AND COSGRIFF, JOHN W; *VERTEBRATE PALEONTOLOGY OF THE PERMIAN-TRIASSIC GONDWANA SEQUENCE IN NORTH VICTORIA LAND, ANTARCTICA (DPP-8019996);* 12 MONTHS $22,307

MINNESOTA

MACALESTER COLLEGE

WEBERS, GERALD F; *GEOLOGICAL INVESTIGATION OF THE ELLSWORTH MOUNTAINS, ANTARCTICA (DPP-8020482);* 12 MONTHS $55,668

UNIVERSITY OF MINNESOTA

CAHILL, LAURENCE J; *MICROPULSATION RESEARCH AT ROBERVAL, QUEBEC, AND AT SIPLE AND SOUTH POLE, ANTARCTICA (DPP-7923294 A03*);* 12 MONTHS $40,000

BENGTSON, JOHN L, AND SINIFF, DONALD B; *CHANGES IN REPRODUCTIVE PATTERNS OF CERTAIN ANTARCTIC SEAL SPECIES AS INDICATORS OF SHIFTS IN ECOSYSTEM STRUCTURE AND FUNCTION (DPP-8020087);* 24 MONTHS $78,492

SINIFF, DONALD B; *SEASONAL MOVEMENTS AND INTERACTIONS OF WEDDELL SEALS AND ANTARCTIC COD IN MCMURDO SOUND, ANTARCTICA (DPP-8020097);* 12 MONTHS $105,669

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

KUIVINEN, KARL C; *COORDINATION OF ICE CORE DRILLING (DPP-7408414 A11*);* 12 MONTHS $77,966

KUIVINEN, KARL C; *COORDINATION OF ICE CORE DRILLING (DPP-7408414 A12*);* 6 MONTHS $41,167

NEW HAMPSHIRE

DEPARTMENT OF ARMY-COLD REGIONS RESEARCH AND ENGINEERING LAB

ACKLEY, STEPHEN F, AND ANDREAS, EDGAR L; *AIR-SEA INTERACTION AND SEA ICE STUDIES OF THE JOINT WEDDELL POLYNYA EXPEDITION (DPP-8006922);* 12 MONTHS $114,902

ACKLEY, STEPHEN F, AND ANDREAS, EDGAR L; *AIR-SEA INTERACTION AND SEA ICE STUDIES OF THE JOINT WEDDELL POLYNYA EXPEDITION (DPP-8006922 A01);* 4 MONTHS $5,000

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

MAYEWSKI, PAUL A; *HISTORY AND SIGNIFICANCE OF ICE MASS FLUCTUATIONS IN VICTORIA LAND, ANTARCTICA (DPP-8019982);* 12 MONTHS $42,257

MORRIS, IAN; *LIPID SYNTHESIS AND PHYTOPLANKTON GROWTH IN THE SOUTHERN OCEAN (DPP-8115825);* 12 MONTHS $59,217

NEW JERSEY

ITT ANTARCTIC SERVICES INC

GRAY, RODNEY E; *SPECIALIZED SUPPORT OF THE UNITED STATES ANTARCTIC RESEARCH PROGRAM (DPP-8003801 A04*);* 6 MONTHS $3,500,000

GRAY, RODNEY E; *SPECIALIZED SUPPORT OF THE UNITED STATES ANTARCTIC RESEARCH PROGRAM (DPP-8003801 A06*);* 6 MONTHS $4,413,783

GRAY, RODNEY E; *SPECIALIZED SUPPORT OF THE UNITED STATES ANTARCTIC RESEARCH PROGRAM (DPP-8003801 A07);* 4 MONTHS $1,900,000

GRAY, RODNEY E; *SPECIALIZED SUPPORT OF THE UNITED STATES ANTARCTIC RESEARCH PROGRAM (DPP-8003801 A08);* 6 MONTHS $3,288,762

NEW MEXICO

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

KYLE, PHILIP R; *PETROGENESIS OF THE MCMURDO VOLCANIC GROUP AND THE NATURE OF THE SUBCONTINENTAL MANTLE IN VICTORIA LAND, ANTARCTICA (DPP-8020002);* 12 MONTHS $30,799

NEW YORK

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

DALZIEL, IAN W; *EVOLUTION OF THE WEST ANTARCTIC - ANDEAN CORDILLERA IN THE SCOTIA ARC REGION (DPP-7820629 A02);* 12 MONTHS $65,969

GORDON, ARNOLD L; *PROCESSING/ANALYSIS OF THE ARA ISLAS ORCADAS HYDROGRAPHIC CIRCUMPOLAR DATA SET (DPP-7824832 A02);* 12 MONTHS $124,000

JACOBS, STANLEY S; *OCEANOGRAPHY OF THE ANTARCTIC CONTINENTAL MARGIN (DPP-7918674 A01);* 12 MONTHS $30,167

JACOBS, STANLEY S, AND GORDON, ARNOLD L; *OCEANOGRAPHY OF THE ANTARCTIC CONTINENTAL MARGIN (DPP-7918674 A03);* $9,714

GORDON, ARNOLD L; *US-USSR WEDDELL POLYNYA EXPEDITION (DPP-8005765*);* 12 MONTHS $132,636

MARRA, JOHN; *THE WEDDELL SEA POLYNYA IN WINTER--PLANKTON DISTRIBUTION (DPP-8008011);* 12 MONTHS $70,040

KENT, DENNIS V; *PALEOMAGNETIC INVESTIGATIONS OF THE RELATIONS BETWEEN EAST AND WEST ANTARCTICA (DPP-8111762);* 12 MONTHS $27,940

CORNELL UNIVERSITY

KINTNER, PAUL M; *DATA ANALYSIS OF DC AND AC ELECTRIC FIELDS AND MAGNETIC FIELDS IN THE IONOSPHERE ABOVE THE ANTARCTIC VLF TRANSMITTER (DPP-8023968);* 12 MONTHS $47,955

HUNTER COLLEGE

HASCHEMEYER, AUDREY E; *ADAPTATIONS IN PROTEIN METABOLISM OF ANTARCTIC ORGANISMS (DPP-8021454);* 12 MONTHS $103,232

STATE UNIVERSITY AT BINGHAMTON

MURRISH, DAVID E; *THERMOREGULATORY MECHANISMS IN ANTARCTIC PENGUINS (DPP-8019988);* 12 MONTHS $42,071

STATE UNIVERSITY AT BUFFALO

LANGWAY, CHESTER C; *OPERATION OF THE CENTRAL ICE CORE STORAGE FACILITY AND INFORMATION EXCHANGE (DPP-7508512 A07*);* 12 MONTHS $19,000

NORTH CAROLINA

UNIVERSITY OF NORTH CAROLINA AT WILMINGTON

GEORGE, ROBERT Y; *GROWTH AND METABOLISM OF ANTARCTIC MARINE CRUSTACEA IN RELATION TO TEMPERATURE AND PRESSURE (DPP-8026535);* 12 MONTHS $90,882

OHIO

KENT STATE UNIVERSITY

DAHL, PETER S, AND PALMER, DONALD F; *MINERAL CHEMISTRY AND PETROGENESIS OF ORBICULAR ROCKS FROM THE TAYLOR VALLEY REGION, SOUTH VICTORIA LAND, ANTARCTICA (DPP-8001743 A01);* 12 MONTHS $34,334

OHIO STATE UNIVERSITY

PRIDE, DOUGLAS E; *GENESIS OF MINERALIZATION ASSOCIATED WITH ANDEAN INTRUSIONS, NORTHERN ANTARCTIC PENINSULA REGION (DPP-7821103 A03);* 12 MONTHS $19,987

COLLINSON, JAMES W; *STRATIGRAPHY AND SEDIMENTATION OF THE POLARSTAR FORMATION, ELLSWORTH MOUNTAINS, ANTARCTICA (DPP-7821129 A02)*; 12 MONTHS $8,782

ZINSMEISTER, WILLIAM J; *LATE CRETACEOUS AND EARLY TERTIARY BIOGEOGRAPHY OF THE SOUTHERN CIRCUM-PACIFIC (DPP-7920215 A01)*; 12 MONTHS $33,158

ZINSMEISTER, WILLIAM J; *EARLY CENOZOIC BEOGEOGRAPHY OF THE ROSS SEA SECTOR OF ANTARCTICA AND TASMANIA (DPP-7920215 A02)*; 6 MONTHS $6,097

KYLE, PHILIP R, AND ELLIOT, DAVID H; *MT. EREBUS, ANTARCTICA, SEISMIC STUDY (DPP-7920316 A01)*; 12 MONTHS $48,179

FAURE, GUNTER; *TEST OF CONFLICTING HYPOTHESES ON THE CENOZOIC GLACIATION OF THE TRANSANTARCTIC MOUNTAINS, ANTARCTICA (DPP-7920407 A01)*; 12 MONTHS $30,000

WHILLANS, IAN M; *GLACIOLOGY NEAR DOME 'C,' EAST ANTARCTICA (DPP-7920824)*; 12 MONTHS $61,841

ELLIOT, DAVID H; *THIRD INTERNATIONAL SYMPOSIUM ON ANTARCTIC GLACIOLOGY (DPP-8012877 A01)*; 6 MONTHS $19,740

THOMPSON, LONNIE G, AND MOSLEY-THOMPSON, ELLEN; *COMPARATIVE MICROPARTICLE ANALYSIS OF THE 385-M J-9 ICE CORE, ROSS ICE SHELF, ANTARCTICA (DPP-8016151)*; 18 MONTHS $33,619

MOSLEY-THOMPSON, ELLEN; *MICROPARTICLE ANALYSIS AND GLACIOLOGICAL INTERPRETATION OF THE 500-M ICE CORE, SOUTH POLE, ANTARCTICA (DPP-8018860)*; 12 MONTHS $48,506

BRECHER, HENRY H; *PHOTOGRAMMETRIC INVESTIGATION OF BYRD GLACIER SURFACE LOWERING (DPP-8019962)*; 12 MONTHS $39,418

ELLIOT, DAVID H, AND ZINSMEISTER, WILLIAM J; *GEOLOGIC AND PALEONTOLOGIC HISTORY OF THE JAMES ROSS ISLAND BASIN, NORTHERN ANTARCTIC PENINSULA (DPP-8020096)*; 12 MONTHS $35,000

COLLINSON, JAMES W; *STRATIGRAPHY, SEDIMENTOLOGY, & SEDIMENTARY PETROLOGY OF THE PERMIAN-TRIASSIC GONDWANA SEQUENCE IN NORTH VICTORIA LAND, ANTARCTICA (DPP-8020098)*; 12 MONTHS $30,000

ELLIOT, DAVID H, AND FAURE, GUNTER; *KIRKPATRICK BASALT GROUP, NORTH VICTORIA LAND, ANTARCTICA (DPP-8021401)*; 12 MONTHS $45,000

WEBB, PETER-NOE; *CENOZOIC BIOSTRATIGRAPHY OF ANTARCTICA (DPP-8023458)*; 12 MONTHS $34,999

ELLIOT, DAVID H; *GONDWANA GEOLOGY OF THE FALKLAND ISLANDS (DPP-8025210)*; 12 MONTHS $18,000

BROMWICH, DAVID H; *PRECIPITATION OVER THE COASTAL AREAS OF EAST ANTARCTICA (DPP-8100142)*; 24 MONTHS $83,425

MCKENZIE, GARRY D; *IPA MOBILITY ASSIGNMENT (DPP-8116268*)*; 13 MONTHS $23,000

OKLAHOMA

OKLAHOMA MEDICAL RESEARCH FOUNDATION

MUCHMORE, HAROLD G; *VIRUS SHEDDING AND IMMUNITY DURING ISOLATION IN THE ANTARCTIC (DPP-8020092)*; 12 MONTHS $88,263

OREGON

OREGON STATE UNIVERSITY

GORDON, LOUIS I, AND NELSON, DAVID M; *WINTER NUTRIENT CYCLING IN THE WEDDELL SEA (DPP-8007620)*; 12 MONTHS $55,480

PENNSYLVANIA

UNIVERSITY OF PENNSYLVANIA

RICKLEFS, ROBERT E; *DIET AND REPRODUCTION IN HIGH-LATITUDE PLANKTON-FEEDING SEABIRDS (DPP-8021251*)*; 24 MONTHS $48,344

UNIVERSITY OF PITTSBURGH

CASSIDY, WILLIAM A; *ANTARCTIC SEARCH FOR METEORITES (DPP-7821104 A02)*; 12 MONTHS $46,191

RHODE ISLAND

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY

KENNETT, JAMES P; *PALEOENVIRONMENTAL EVOLUTION OF THE SOUTHERN OCEAN BASED ON DEEP-DRILLED SEDIMENTARY SEQUENCES (DPP-8112615)*; 12 MONTHS $55,671

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

WILLIAMS, DOUGLAS F; *LATE CENOZOIC PALEOCEANOGRAPHIC STUDIES OF SOUTHERN OCEAN DEEP-SEA SEDIMENTS (DPP-8023696)*; 12 MONTHS $42,444

SWITZERLAND

UNIVERSITY OF BERN

OESCHGER, HANS; *RADIOACTIVE ISOTOPES DATING AND OTHER GEOCHEMICAL AND ISOTOPES STUDIES AS PART OF POLAR ICE-DRILLING PROJECTS (DPP-7681496 A03)*; 7 MONTHS $28,700

TEXAS

RICE UNIVERSITY

ANDERSON, JOHN B; *MARINE GEOLOGY OF THE ANTARCTIC CONTINENTAL MARGIN (DPP-7921578 A01)*; 12 MONTHS $50,982

TEXAS A & M UNIVERSITY

BIGGS, DOUGLAS C; *PHYSIOLOGICAL ECOLOGY OF ANTARCTIC ZOOPLANKTON: IMPACT OF ZOOPLANKTON EXCRETION ON NH_4 (AMMONIUM ION) NUTRIENT CONCENTRATION AND EPIPELAGIC NITROGEN CYCLING (DPP-7921355 A01)*; 12 MONTHS $45,123

FRYXELL, GRETA A; *DISTRIBUTION AND ABUNDANCE OF ANTARCTIC AND SUB-ANTARCTIC PHYTOPLANKTON (DPP-8020381)*; 12 MONTHS $30,987

EL-SAYED, SAYED Z; *ANALYSIS OF ANTARCTIC PHYTOPLANKTON DATA (DPP-8111107)*; 12 MONTHS $33,916

TEXAS TECH UNIVERSITY

CHATTERJEE, SANKAR; *STRATIGRAPHY AND PALEONTOLOGY OF THE GONDWANA ROCKS OF ANTARCTICA (DPP-8107152)*; 12 MONTHS $26,000

UNIV OF TEXAS AT AUSTIN

TUCKER, ARNOLD J; *GEODETIC AND UPPER ATMOSPHERIC STUDIES IN ANTARCTICA USING ARTIFICIAL EARTH SATELLITES (DPP-6800508 A11)*; 24 MONTHS $1

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

KING, ELBERT A; *INVESTIGATION OF COMETARY DUST IN THE ANTARCTIC ICE (DPP-7820410 A02)*; 12 MONTHS $32,036

BAUST, JOHN G; *PHYSIOLOGICAL AND BIOCHEMICAL BASES OF FREEZING TOLERANCE IN TERRESTRIAL ARTHROPODS OF THE ANTARCTIC (DPP-7821116 A02)*; $28,556

UTAH

UTAH STATE UNIVERSITY

BERKEY, F TOM, AND DOUPNIK, JOE R; *IONOSONDE STUDIES OF THE CUSP IONOSPHERE FROM SOUTH POLE STATION, ANTARCTICA (DPP-8017351 A02)*; $68,998

DOUPNIK, JOE R; *DIGITAL IONOSONDE STUDIES OF THE IONOSPHERE FROM SIPLE STATION, ANTARCTICA AND ROBERVAL, QUEBEC (DPP-8100220)*; 12 MONTHS $168,545

VIRGINIA

DEPARTMENT OF NAVY-OFFICE OF NAVAL RESEARCH

LUTHER, CHARLES A; *DEVELOPMENT OF A WEATHER STATION AIR DEPLOYMENT SYSTEM (DPP-8018754)*; 12 MONTHS $24,990

GEOLOGICAL SURVEY

TAGGERT, JAMES; *SEISMOLOGICAL OBSERVATORY OPERATIONS AT SOUTH POLE STATION (DPP-8111558)*; 12 MONTHS $16,000

SOUTHARD, RUPERT B; *ANTARCTIC MAPPING OPERATIONS (DPP-8112853)*; 15 MONTHS $170,300

VIRGINIA POLYTECHNIC INSTITUTE

PARKER, BRUCE C; *THE RELATIONSHIP OF NITROGENOUS CHEMICAL CONTENT OF POLAR ICE AND SNOW TO ATMOSPHERIC NITROGEN FIXATION (DPP-7721417 A03)*; 12 MONTHS $30,005

PARKER, BRUCE C, AND SIMMONS, GEORGE M; *ANTARCTIC LAKE PHYSIOLOGICAL ADAPTATIONS (ALPHA) (DPP-7920805 A01)*; 12 MONTHS $105,741

WASHINGTON

UNIVERSITY OF WASHINGTON

PARKS, GEORGE K; *CONJUGATE X-RAY AND ELECTRIC FIELD MEASUREMENTS AT ROBERVAL, CANADA (DPP-7721203 A03)*; 12 MONTHS $31,172

CADKE, LAWRENCE F, AND HOBBS, PETER V; *AIRBORNE STUDIES OF ANTARCTIC AEROSOLS: VOLCANIC, MARINE AND ANTHROPOGENIC (DPP-7920857 A02)*; 6 MONTHS $18,914

STUIVER, MINZE; *OXYGEN ISOTOPE ANALYSIS OF ICE AND PERMAFROST CORES (DPP-8019756)*; 12 MONTHS $85,470

WASHINGTON STATE UNIVERSITY

CAMPBELL, MALCOLM J, AND SHEPPARD, JOHN C; *ANTARCTIC HYDROXYL EXPERIMENTS (DPP-7920827 A01)*; 12 MONTHS $23,544

ROBINSON, ELMER; *ANTARCTIC AIR CHEMISTRY AND METEOROLOGY (DPP-7921003 A01)*; 12 MONTHS $87,086

ROBINSON, ELMER, AND BAMESBERGER, W LEE; *AIR CHEMISTRY MONITORING AT PALMER STATION (DPP-8005797 A01)*; 12 MONTHS $157,191

WESTERN WASHINGTON UNIVERSITY

WODZICKI, ANTONI, AND BURMESTER, RUSSELL F; *PETROLOGY, MINERALIZATION, METAMORPHISM AND PALEOMAGNETISM OF THE BOWERS SUPERGROUP, NORTHERN VICTORIA LAND, ANTARCTICA (DPP-8020728)*; 12 MONTHS $45,931

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON-MEDICAL SCHOOL

DICK, ELLIOT C; *A STUDY OF RESPIRATORY VIRUS TRANSMISSION AMONG THE PERSONNEL AT MCMURDO STATION, ANTARCTICA, DURING THE 'WINFLY' ISOLATION PERIOD (DPP-8015486 A01)*; 12 MONTHS $92,886

UNIVERSITY OF WISCONSIN-MADISON

BENTLEY, CHARLES R; *GEOPHYSICAL INVESTIGATION OF THE DOME C AREA, EAST ANTARCTICA (DPP-7820953 A01);* 12 MONTHS $63,207

BENTLEY, CHARLES R; *ANALYSIS OF ROSS ICE SHELF GEOPHYSICAL AND GLACIOLOGICAL SURVEY (RIGGS) DATA (DPP-7920736 A01);* 12 MONTHS $81,783

STEARNS, CHARLES R; *THE COLLECTION AND ANALYSIS OF ANTARCTIC AUTOMATIC WEATHER STATION DATA (DPP-7925040 A01);* 12 MONTHS $168,987

BENTLEY, CHARLES R; *MEASUREMENT OF THE DIELECTRIC CONSTANT OF ANTARCTIC ICE CORE SAMPLES (DPP-8112881);* 12 MONTHS $50,080

OTHER PROGRAMS

ALABAMA

UNIVERSITY OF ALABAMA

THOMAS, WILLIAM A; *VARIATION IN TIME OF OROGENY ALONG OROGENIC BELTS FROM THE PERSPECTIVE OF CLASTIC WEDGES (EAR-8109470*);* 12 MONTHS $1,446

UNIVERSITY OF ALABAMA IN HUNTSVILLE

WILSON, HAROLD J; *THE MECHANISM OF TRANSLOCATION AND NUCLEOPATHIC EXPRESSION OF A PHLOEM-ASSOCIATED SINGLE-STRANDED DNA PLANT VIRUS (PRM-8011574*);* 24 MONTHS $66,500

MEEHAN, EDWARD J; *ACQUISITION OF RESEARCH EQUIPMENT FOR BIOCHEMICAL AND CRYSTALLOGRAPHIC STUDIES OF LECTINS (PRM-8100688);* 12 MONTHS $21,377

ARIZONA

ARIZONA STATE UNIVERSITY

COWLEY, JOHN M, BUSECK, PETER R, EYRING, LEROY, AND SPENCE, JOHN C; *REGIONAL INSTRUMENTATION FACILITY FOR HIGH RESOLUTION ELECTRON MICROSCOPY (PRM-7916098 A02);* 12 MONTHS $255,000

COBAS, JOSE A; *MIDDLEMAN ECONOMIC ACTIVITY AND ETHNIC SOLIDARITY (PRM-8107961*);* 24 MONTHS $40,000

NORTHERN ARIZONA UNIVERSITY

MOGENSEN, H LLOYD; *ACQUISITION OF ULTRASONICATOR, SPECTROPHOTOMETER, AND CENTRIFUGE (PRM-8109097);* 12 MONTHS $6,999

UNIVERSITY OF ARIZONA

BARSTOW, LEON E; *PREPARATION AND EVALUATION OF SEMI-SYNTHETIC ANALYSIS OF HEART MUSCLE CYTOCHROME C (PCM-7817029 A01*);* 24 MONTHS $40,000

ARKANSAS

UNIVERSITY OF ARKANSAS CENTRAL OFFICE

LEONE, CHARLES A; *AN EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE RESEARCH: PHASE B IMPLEMENTATION PLAN IN ARKANSAS (PRM-8011447);* 12 MONTHS $1,216,936

UNIVERSITY OF ARKANSAS, LITTLE ROCK

LYNCH, THOMAS J; *ACQUISITION OF LIQUID SCINTILLATION COUNTER (PRM-8019831);* 12 MONTHS $21,115

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

WEINBERG, W HENRY; *INELASTIC ELECTRON TUNNELING SPECTROSCOPIC STUDIES OF METAL TETRAHYDROBORATES & ORGANOMETALLIC POLYMERIZATION CATALYSIS (CPE-8024597*);* 12 MONTHS $20,791

SCUDDER, THAYER; *LONGITUDINAL STUDY OF HUMAN ADAPTATION UNDER CONDITIONS OF STRESS AND RAPID CHANGE (BNS-8100043*);* 24 MONTHS $50,000

CALIFORNIA POLYTECHNIC ST UNIV,SAN LUIS OBISPO

HOFFMAN, KENNETH A; *ACQUISITION OF MICROCOMPUTER SYSTEM FOR PALEOMAGNETIC STUDIES (PRM-8019685);* 12 MONTHS $7,674

CALIFORNIA STATE UNIVERSITY, FULLERTON

BECKER, JOSEPH F; *DATA ACQUISITION SYSTEM FOR FLUORESCENCE LIFETIME MEASURING APPARATUS (PRM-8019687);* 12 MONTHS $16,905

OLMSTED, JOHN A; *FLUORESCENCE SPECTROPHOTOMETER FOR CHEMISTRY/PHYSICS (PRM-8020155);* 12 MONTHS $23,288

DEMING, RICHARD L; *ACQUISITION OF ATOMIC ABSORPTION SPECTROPHOTOMETER (PRM-8020156);* 12 MONTHS $24,910

FINLAYSON-PITTS, BARBARA; *ACQUISITION OF MASS SPECTROMETER (PRM-8020406);* 12 MONTHS $25,015

GROSSMONT COLLEGE

SUMICH, JAMES L; *ACQUISITION OF PHOTOGRAPHIC EQUIPMENT FOR BIOLOGICAL OCEANOGRAPHY (PRM-8109087);* 12 MONTHS $995

INDIVIDUAL AWARD

BAKER, JAMES F; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166001);* 36 MONTHS $15,300

BICKLER, PHILIP E; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166002);* 36 MONTHS $15,300

BRESLOW, LEONARD A; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166004);* 36 MONTHS $15,700

LEIGHTON, MARK; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166023);* 36 MONTHS $16,350

LUCCHESE, ROBERT R; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166025);* 36 MONTHS $15,530

SHILLER, ALAN M; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166042);* 36 MONTHS $15,895

SILK, JOAN B; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166043);* 36 MONTHS $15,530

STEPHENSON, GREGORY B; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166044);* 36 MONTHS $15,680

OCCIDENTAL COLLEGE

KEELEY, JON E; *ACQUISITION OF CONTROLLED ENVIRONMENTAL CHAMBERS (PRM-8100529);* 12 MONTHS $16,995

SAN DIEGO STATE UNIVERSITY

FRAGASZY, DOROTHY M; *ACQUISITION OF DATA RECORDING AND ANALYSIS EQUIPMENT FOR BEHAVIORAL RESEARCH (PRM-8100528);* 12 MONTHS $24,952

KRUMMENACHER, DANIEL; *INSTRUMENTATION FOR ISOTOPE GEOLOGY RESEARCH (PRM-8105477);* 12 MONTHS $35,000

SABBADINI, ROGER A; *ACQUISITION OF ULTRACENTRIFUGE AND ROTORS (PRM-8107443);* 12 MONTHS $24,952

SAN FRANCISCO STATE UNIVERSITY

DORER, FRED H; *HIGH PRESSURE LIQUID CHROMATOGRAPHY (PRM-8019267);* 12 MONTHS $16,348

SAN JOSE STATE UNIVERSITY

MULLINS, HENRY T; *ACQUISITION OF PRECISION DEPTH RECORDER SYSTEM FOR OCEANOGRAPHIC RESEARCH (PRM-8100522);* 12 MONTHS $34,981

STANFORD UNIVERSITY

PEASE, R F; *MICROSTRUCTURE FABRICATION USING ELECTRON BEAMS OF CONVENTIONAL AND OF VERY LOW ENERGIES (ECS-7911100 A01*);* 12 MONTHS $75,000

LITTLE, WILLIAM A; *MICROPHYSICAL TECHNIQUES FOR THE CHARACTERIZATION OF SOLIDS (DMR-8007655*);* 12 MONTHS $60,000

QUATE, CALVIN F; *RESEARCH ON ACOUSTIC MICROSCOPY WITH SUPERIOR RESOLUTION (ECS-8010786*);* 12 MONTHS $50,000

FULLER, GERALD G; *TWO COLOR BIREFRINGENCE MEASUREMENT OF FLOW INDUCED DEFORMATION AND ORIENTATION OF MACROMOLECULES (CPE-8025833*);* 12 MONTHS $20,000

UNIVERSITY OF CALIFORNIA, BERKELEY

KUNG, ANDREW H, BRAUMAN, JOHN I, LEE, YUAN T, MOORE, C BRADLEY, AND ZARE, RICHARD N; *SAN FRANCISCO LASER CENTER (PRM-7916250 A02);* 12 MONTHS $330,824

BRESLOW, LEONARD A; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166004 A01);* 40 MONTHS $360

LUBIN, PHILIP M; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166057);* 40 MONTHS $16,520

UNIVERSITY OF CALIFORNIA, DAVIS

MEEKS, JOHN C; *CONTROL OF HETEROCYST FORMATION IN FREE-LIVING AND SYMBIOTIC CYANOBACTERIA (PCM-7904136 A01*);* 24 MONTHS $48,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

YEH, CAVOUR W, AND LEE, KELVIN S; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: THE SCATTERING OF A STRONGLY FOCUSED LASER BEAM BY FINE PARTICLES (CPE-8017436*);* 24 MONTHS $76,287

UNIVERSITY OF CALIFORNIA, SAN DIEGO

REVELLE, ROGER, YORK, HERBERT F, AND BURHANS, A DANIEL; *NATIONAL SECURITY AND ENVIRONMENT FOR THE FIVE-YEAR OUTLOOK (PRM-8120357);* 12 MONTHS $10,000

UNIVERSITY OF SAN DIEGO

BURNETT, LOUIS E, AND WOODSON, PAUL B; *ACQUISITION OF GAS MIXING PUMPS AND RELATED EQUIPMENT FOR BIOLOGICAL OCEANOGRAPHY (PRM-8108700);* 12 MONTHS $29,996

UNIVERSITY OF SOUTHERN CALIFORNIA

HO, PING-TONG, AND GARMIRE, ELSA; *MODE-LOCKING OF A SEMICONDUCTOR LASER BY FEEDBACK CONTROL (ECS-8019635*);* 12 MONTHS $44,987

COLORADO

COLORADO STATE UNIVERSITY

MACIEL, GARY E; *REGIONAL INSTRUMENTATION FACILITY FOR NUCLEAR MAGNETIC RESONANCE SPECTROMETRY (PRM-7818581 A03);* 12 MONTHS $192,165

UNIVERSITY OF COLORADO AT BOULDER

CURRY, JAMES H; *COMPUTER AIDED ANALYSIS OF DISSIPATIVE DYNAMICAL SYSTEMS AND THEIR ATTRACTOR SETS (PRM-8106833*);* 36 MONTHS $43,470

CRUZ, ALEXANDER; *AVIAN BROOD PARASITISM (PRM-8112194*);* 36 MONTHS $150,025

CONNECTICUT

INDIVIDUAL AWARD

HUNG, DAISY L; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166056);* 36 MONTHS $16,150

YALE UNIVERSITY

PRESTEGARD, JAMES H, ARMITAGE, IAN M, CROTHERS, DONALD M, FALLER, J W, AND SAUNDERS, MARTIN; *EAST COAST REGIONAL HIGH FIELD NUCLEAR MAGNETIC RESONANCE FACILITY (PRM-7916210 A02);* 12 MONTHS $206,000

SHULMAN, ROBERT G; *NMR STUDIES OF YEAST CELLS AND SPORES (PCM-8021715*);* 12 MONTHS $30,000

DELAWARE

UNIVERSITY OF DELAWARE

WEBER, ROBERT S; *STRUCTURAL AND ELECTRONIC PROPERTIES OF SUPPORTED METAL CATALYSTS (CPE-8020209*);* 12 MONTHS $11,979

DISTRICT OF COLUMBIA

GEORGE WASHINGTON UNIVERSITY

LOGSDON, JOHN M; *THE OUTLOOK FOR SCIENCE AND TECHNOLOGY: IDENTIFYING ISSUES AND NEW PERSPECTIVES (PRM-8119829);* 12 MONTHS $19,750

GEORGETOWN UNIVERSITY

RIDLEY, JEANNE C; *ROLE AND STATUS CHANGES AND FERTILITY (SES-8024558*);* 24 MONTHS $40,000

HOWARD UNIVERSITY

CHACHERE, GERALD R; *A GAUSS-BONNET THEOREM FOR SMOOTH AND NEAR SMOOTH COMPLEXES (PRM-8104571*);* 24 MONTHS $14,900

SPENCER, MICHAEL; *INVESTIGATION OF CVD GAAS BUFFER AND ACTIVE LAYERS (PRM-8107474*);* 36 MONTHS $81,169

POINTER, RICHARD H; *REGULATION OF HEPATIC GLYCOGEN METABOLISM BY HORMONES AND SUBSTRATES (PRM-8110709*);* 36 MONTHS $149,999

INDIVIDUAL AWARD

ROCEK, MARTIN; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166038);* 36 MONTHS $16,300

SCHACTER, DANIEL L; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166040);* 36 MONTHS $14,795

MOSHMAN ASSOCIATES INC

NOZICKA, GEORGE J; *DESIGN AND DEVELOPMENT OF AN AUTOMATED STORAGE AND RETRIEVAL SYSTEM IN SUPPORT OF NSF STATISTICAL TABULATION AND ANALYSIS (PLN-8117128);* 6 MONTHS $29,745

NATIONAL ACADEMY OF SCIENCES

GREEN, ROBERT E; *SUPPORT OF THE COMMITTEE ON SCIENCE AND PUBLIC POLICY (PLN-7913104 A02);* 12 MONTHS $134,300

GREEN, ROBERT E; *SUPPORT OF THE COMMITTEE ON SCIENCE AND PUBLIC POLICY (PLN-7913104 A03);* 12 MONTHS $178,200

ROWAN, EDMUND C; *INTERNATIONAL ORGANIZATIONS PROGRAM (08N-7922819 A04*);* 12 MONTHS $319,000

NAFTALIN, MICHAH H; *STUDY OF METHODOLOGIES FOR POSTPERFORMANCE EVALUATION OF SCIENTIFIC RESEARCH (EVL-8115789);* 9 MONTHS $257,330

THOMPSON, MELVIN; *IPA MOBILITY ASSIGNMENT (MELVIN THOMPSON) (PRM-8119712);* 12 MONTHS $20,000

THOMPSON, MELVIN; *IPA MOBILITY ASSIGNMENT (PAE-8122090);* 12 MONTHS $45,520

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

COLEMAN, JOHN S; *CONTRIBUTION TO THE SECOND FIVE-YEAR OUTLOOK (PRM-8008016 A01);* 12 MONTHS $10,500

OFFICE OF SCIENCE & TECHNOLOGY

PERRY, JOHN S; *NATIONAL RESEARCH COUNCIL COMPREHENSIVE CARBON DIOXIDE ASSESSMENT (29N-8109990);* 12 MONTHS $100,000

URBAN INSTITUTE

SCHAINBLATT, ALFRED H; *IPA MOBILITY ASSIGNMENT (ALFRED H. SCHAINBLATT) (PRM-8118323);* 24 MONTHS $9,300

FLORIDA

ECKERD COLLEGE

BRACK-HANES, SHEILA D; *ACQUISITION OF SCANNING ELECTRON MICROSCOPE (PRM-8020585);* 12 MONTHS $32,245

FLORIDA INTERNATIONAL UNIVERSITY

COOPER, WILLIAM J, AND RICE, RAMONA G; *ACQUISITION OF ULTRAVIOLET-VISIBLE SPECTROPHOTOMETER AND ACCESSORIES (PRM-8022429);* 12 MONTHS $15,700

INDIVIDUAL AWARD

DERESZEWSKI, GAIL N; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166008);* 36 MONTHS $15,610

GEORGIA

AGNES SCOTT COLLEGE

KUZNESOF, PAUL M; *ACQUISITION OF THERMOGRAVIMETRIC ANALYZER (PRM-8025792);* 12 MONTHS $18,702

ATLANTA UNIVERSITY

PARKER, CURTIS L; *REGULATION OF DIFFERENTIATION OF EMBRYONIC CELLS (PRM-8111221*);* 36 MONTHS $109,765

GEORGIA INSTITUTE OF TECHNOLGY MAIN CAMPUS

CHUBIN, DARYL E; *REVIEW AND PLANNING SEMINAR ON THE FIVE-YEAR OUTLOOK ON SCIENCE & TECHNOLOGY (PRM-8117329);* 12 MONTHS $19,952

GEORGIA STATE UNIVERSITY

WRIGHT, KRISTINA; *PURCHASE OF LIQUID SCINTILLATION SPECTROMETER (PRM-8100526);* 12 MONTHS $21,000

MERCER UNIVERSITY

BURKE, DANIEL D; *LIQUID SCINTILLATION SYSTEM AND ULTRACENTRIFUGE EQUIPMENT (PRM-8025797);* 12 MONTHS $35,000

MOREHOUSE COLLEGE

JONES, BETTY R; *ACQUISITION OF MICROSCOPIC EQUIPMENT (PRM-8108084);* 12 MONTHS $19,258

IDAHO

INDIVIDUAL AWARD

POSSIDENTE, BERNARD P; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166034);* 36 MONTHS $15,505

ILLINOIS

BRADLEY UNIVERSITY

GALSKY, ALAN G; *ACQUISITION OF ENVIRONMENTAL GROWTH CHAMBERS (PRM-8022122);* 12 MONTHS $12,012

HUGGINS, BRIAN D; *INSTRUMENTATION FOR MICROWAVE SYSTEM DESIGN (PRM-8026751);* 12 MONTHS $20,240

CHICAGO STATE UNIVERSITY

SHERMAN, WARREN V; *ACQUISITION OF SPECTROMETER AND ACCESSORIES (PRM-8109080);* 12 MONTHS $30,890

SHERMAN, WARREN V; *ACQUISITION OF SPECTROFLUOROMETER AND ACCESSORIES (PRM-8109080 A01);* $4,005

INDIVIDUAL AWARD

COLEY, PHYLLIS D; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166005);* 36 MONTHS $14,600

DUNKEL-SCHETTER, CHRISTIN; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166010);* 42 MONTHS $15,645

HERRON, JAMES N; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166016);* 36 MONTHS $15,580

HOGAN, CRAIG J; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166018);* 36 MONTHS $15,905

MILLER, CHERYL A; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166028);* 36 MONTHS $15,435

SWANSON, MAURICE S; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166045);* 36 MONTHS $15,300

WEIS, ARTHUR E; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166048);* 36 MONTHS $15,498

LAKE FOREST COLLEGE

THOMPSON, MARTIN L; *ACQUISITION OF A NUCLEAR MAGNETIC RESONANCE SPECTROMETER FOR CHEMICAL RESEARCH (PRM-8020845);* 12 MONTHS $24,860

UNIVERSITY OF CHICAGO

TOLLEY, GEORGE S; *ECONOMICS OF LOCATION OF PRODUCTION AND POPULATION (SES-7825776 A01*);* 12 MONTHS $62,000

RICHTER, FRANK M; *DYNAMICAL MODEL RELATED TO MANTLE CONVECTION (EAR-7926482 A01*);* 12 MONTHS $69,300

UNIVERSITY OF ILLINOIS AT URBANA

GUTOWSKY, H S, AND OLDFIELD, ERIC; *REGIONAL INSTRUMENTATION FACILITY FOR NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY (PRM-7916100 A02);* 18 MONTHS $352,851

SECHRIST, CHALMERS F, AND GARDNER, CHESTER S; *THEORETICAL AND LIDAR STUDIES OF ATMOSPHERIC SODIUM LAYER DYNAMICS (ATM-7920726 A01*);* 12 MONTHS $9,000

MUNCHUS, MARY S; *THE PRODUCTION OF MONOCLONAL ANTIBODIES WHICH IDENTIFY HUMAN B LYMPHOCYTE SUBPOPULATIONS (PRM-8104585*);* 24 MONTHS $80,000

INDIANA

BALL STATE UNIVERSITY

HOWES, RUTH H; *ACQUISITION OF X-RAY EQUIPMENT FOR ARCHEOLOGICAL RESEARCH (PRM-8019832);* 12 MONTHS $23,310

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS

RABIDEAU, PETER W; *ACQUISITION OF GAS CHROMATOGRAPHIC EQUIPMENT (PRM-8019684);* 12 MONTHS $11,309

INDIVIDUAL AWARD

GRAY, LEWIS; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166015);* 36 MONTHS $15,485

WABASH COLLEGE

BUETTNER, GARRY R; *ACQUISITION OF EQUIPMENT FOR THE STUDY OF SUPEROXIDE DISMUTASE IN CROWN GALL TUMORS (PRM-8019273);* 12 MONTHS $23,240

BUETTNER, GARRY R; *ACQUISITION OF ELECTRON SPIN RESONANCE ACCESSORIES (PRM-8109079);* 12 MONTHS $32,975

IOWA

INDIVIDUAL AWARD

FEENER, DONALD H; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166012);* 36 MONTHS $15,300

LORAS COLLEGE

EAGLESON, GERALD W; *EQUIPMENT FOR FLUORESCENCE MICROSCOPY AND PHOTOGRAPHY (PRM-8023272);* 12 MONTHS $18,466

LUTHER COLLEGE

KAEHLER, MARIAN M; *THE ROLE OF METHYLATION IN POSTTRANSCRIPTIONAL MODIFICATION OF RNA (PRM-8018974);* 12 MONTHS $26,200

DOCKEN, ADRIAN M; *ACQUISTION OF HIGH PERFORMANCE LIQUID CHROMATOGRAPH (PRM-8108086);* 12 MONTHS $23,700

KANSAS

WICHITA STATE UNIVERSITY

WAHLBECK, PHILLIP G; *MASS SPECTROMETER FOR STUDY OF DESORPTION KINETICS (PRM-8020789);* 12 MONTHS $12,225

LOUISIANA

MCNEESE STATE UNIVERSITY

TURNER, HUGH M; *ACQUISITION OF PHASE/INTERFERENCE CONTRAST MICROSCOPE AND ACCESSORIES (PRM-8111592);* 12 MONTHS $20,697

UNIVERSITY OF NEW ORLEANS

PORTER, ROBERT J; *SIGNAL PROCESSOR FOR DATA ACQUISITION AND EXPERIMENT CONTROL (PRM-8022127);* 12 MONTHS $21,790

UNIVERSITY OF SOUTHWESTERN LOUISIANA

GUILLORY, CARROLL J; *COMMUTATIVE BANACH ALGEBRAS (PRM-8102113*);* 24 MONTHS $12,251

MAINE

COLBY COLLEGE

FIRMAGE, DAVID H; *ACQUISITION OF GAS CHROMATOGRAPH (PRM-8022428);* 12 MONTHS $15,420

LABOV, JAY B; *ACQUISITION OF DENSITOMETER SCANNING FOR QUANTITATIVE ANALYSIS OF PROTEINS (PRM-8109717);* 12 MONTHS $7,613

UNIVERSITY OF MAINE, ORONO

BIXLER, HARRIS J; *EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE RESEARCH: PHASE B IMPLEMENTATION PLAN IN MAINE (PRM-8011448 A01);* 12 MONTHS $662,997

MARYLAND

FROSTBURG STATE COLLEGE

VAIL, WILLIAM J; *ACQUISITION OF CARBON EVAPORATION AND FREEZE ETCH UNIT (PRM-8112623);* 12 MONTHS $18,855

INDIVIDUAL AWARD

DEMING, JODY W; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166007);* 36 MONTHS $15,830

PELLMAR, TERRY; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166030);* 36 MONTHS $14,100

PETUCH, EDWARD J; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166032);* 36 MONTHS $15,300

JOHNS HOPKINS UNIVERSITY

FENSELAU, CATHERINE; *REGIONAL INSTRUMENTATION FACILITY FOR MASS SPECTROMETRY (PRM-7818396 A02);* 4 MONTHS $68,365

JOHNS HOPKINS UNIVERSITY-SCHOOL OF MEDICINE

FENSELAU, CATHERINE; *REGIONAL INSTRUMENTATION FACILITY FOR MASS SPECTROMETRY (PRM-7818396 A03);* 12 MONTHS $191,448

LOYOLA COLLEGE

DETOMA, ROBERT P; *ACQUISITION OF A SPECTROFLUOROMETER (PRM-8105774);* 12 MONTHS $34,748

NATIONAL BUREAU OF STANDARDS

LIDE, DAVID R; *STANDARD REFERENCE DATA PROJECT (SRD-8005187 A01);* 18 MONTHS $250,000

TECHNOSCIENCE ASSOCIATES INC

TEICH, ALBERT H; *REPORT TO THE NSB ON THE ROLE OF NATIONAL LABORATORIES IN UNIVERSITY-INDUSTRY RESEARCH RELATIONSHIPS (NSB-8104501);* 12 MONTHS $14,662

MASSACHUSETTS

AMHERST COLLEGE

FINK, RICHARD D; *MULTINUCLEAR PROBE FOR NUCLEAR MAGNETIC RESONANCE STUDIES (PRM-8021037);* 12 MONTHS $25,000

BLANKENSHIP, ROBERT E, DOOLEY, DAVID M, AND JASON, MARK E; *ACQUISITION OF UV-VIS ABSORPTION SPECTROPHOTOMETER (PRM-8110744);* 12 MONTHS $24,990

BRIDGEWATER STATE COLLEGE

PEABODY, DIANE C; *PHOTOMETER AND ACCESSORIES (PRM-8025174);* 12 MONTHS $24,125

PEABODY, DIANE C; *ACQUISITION OF PHOTOMETER AND ACCESSORIES (PRM-8025174 A01);* 12 MONTHS $6,503

CLARK UNIVERSITY

LANDEE, CHRISTOPH P; *ACQUISITION OF MAGNETOMETER AND HELIUM CRYOSTAT (PRM-8109071);* 12 MONTHS $33,200

INDIVIDUAL AWARD

LOEWUS, DAVID I; *SUPPORT FOR NSF POSTDOCTORAL FELLOW (PDF-7914859 A01);* 12 MONTHS $431

POTRIKUS, CATHERINE J; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166035);* 36 MONTHS $15,300

ALPERT, PETER; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166051);* 40 MONTHS $15,925

NELSON, DOUGLAS C; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166059);* 40 MONTHS $15,330

MARINE BIOLOGICAL LABORATORY

PETERSON, BRUCE J; *DYNAMICS OF SULFUR IN A SALT MARSH ECOSYSTEM (DEB-8104701*);* 12 MONTHS $160,000

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

FELD, MICHAEL S; *NORTHEAST REGIONAL CENTER FOR LASER SPECTROSCOPY AND DYNAMICS (PRM-7818580 A01);* 12 MONTHS $370,049

SIMMONS COLLEGE

IRWIN, LOUIS N; *ACQUISITION OF A RADIATION RESEARCH INSTRUMENTATION (PRM-8112185);* 12 MONTHS $24,600

SOUTHEASTERN MASSACHUSETTS UNIVERSITY

UKLEJA, PAUL; *ACQUISITION OF SIGNAL-HANDLING SYSTEM FOR NMR USE (PRM-8020790);* 12 MONTHS $25,000

TUFTS UNIVERSITY

SWINNEY, DAVID A; *MICROPROCESSOR FOR PSYCHOLINGUISTICS COGNITION RESEARCH (PRM-8014957 A01);* 12 MONTHS $3,475

GUERTIN, ROBERT P, AND SAMPLE, HOWARD H; *ACQUISITION OF MICROCOMPUTER SYSTEM FOR RESEARCH IN PHYSICS (PRM-8023504);* 12 MONTHS $24,400

PECHENIK, JAN A; *ACQUISITION OF VAPOR PRESSURE MICRO-OSMOMETER (PRM-8111002);* 12 MONTHS $3,250

UNIVERSITY OF MASSACHUSETTS, AMHERST

WEINBERG, MICHAEL; *IPA MOBILITY ASSIGNMENT (MICHAEL WEINBERG) (GPP-8104971);* 13 MONTHS $36,600

WEINBERG, MICHAEL; *IPA MOBILITY ASSIGNMENT (MICHAEL WEINBERG) (GPP-8104971 A01);* 13 MONTHS $10,000

ST MARY, DONALD F; *OSCILLATION OF LINEAR SELF-ADJOINT DIFFERENTIAL SYSTEMS (PRM-8115410*);* 36 MONTHS $54,463

WEINBERG, MICHAEL; *IPA MOBILITY ASSIGNMENT (GPP-8122092);* 12 MONTHS $28,400

UNIVERSITY OF MASSACHUSETTS, BOSTON

VAN WILLIGEN, HANS; *DATA ACQUISITION AND PROCESSING SYSTEM (PRM-8100525);* 12 MONTHS $12,500

WELLESLEY COLLEGE

MARSHALL, ELIZABETH M; *ACQUISITION OF SOLENOIDS, MAGNET BENCH, AND MAGNET POWER SUPPLY (PRM-8102188);* 12 MONTHS $32,500

DUCAS, THEODORE W; *ACQUISITION OF TIME DOMAIN MEASUREMENT SYSTEM FOR ATOMIC RESEARCH (PRM-8104584);* 12 MONTHS $34,920

WILLIAMS COLLEGE

EISENSTEIN, JAMES P; *ACQUISTION OF TEMPERATURE SENSOR APPARATUS (PRM-8108339);* 12 MONTHS $21,525

WORCESTER POLYTECHNIC INSTITUTE

MILLER, JUDITH E; *ACQUISITION OF CONTINUOUS CULTURE FERMENTER (PRM-8020772);* 12 MONTHS $8,350

EMANUEL, ALEXANDER E; *ACQUISITION OF A PROCESSING DIGITAL OSCILLOSCOPE (PRM-8020856);* 12 MONTHS $18,657

SCHALKOFF, ROBERT J; *PURCHASE OF IMAGE ACQUISITION AND ANALYSIS EQUIPMENT (PRM-8113585);* 12 MONTHS $34,340

MICHIGAN

CALVIN COLLEGE

BLANKESPOOR, RONALD L; *ACQUISITION OF DATA PROCESSING EQUIPMENT (PRM-8104443);* 12 MONTHS $7,268

HOPE COLLEGE

FRIEDRICH, DONALD M; *ACQUISITION OF A PUMPED DYE LASER (PRM-8021048);* 12 MONTHS $22,900

DOYLE, MICHAEL P; *ACQUISITION OF GAS CHROMATOGRAPHY SYSTEM AND ACCESSORIES (PRM-8102915);* 12 MONTHS $21,940

INDIVIDUAL AWARD

PIERCE, JOHN W; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166033)*; 36 MONTHS $15,455

KALAMAZOO COLLEGE

FENNER, DAVID B; *ACQUISITION OF MINICOMPUTER SYSTEM FOR PHYSICS RESEARCH (PRM-8108826)*; 12 MONTHS $9,830

MICHIGAN STATE UNIVERSITY

HUGHES, HERMAN D; *A PROTOCOL INVESTIGATION FOR LOCAL NETWORKS (PRM-8115413*)*; 24 MONTHS $66,654

UNIVERSITY OF MICHIGAN-ANN ARBOR

WEINREICH, GABRIEL; *DYNAMICS AND RADIATION FIELD OF MUSICAL INSTRUMENTS (PHY-8017326*)*; 12 MONTHS $93,857

KELLY, WILLIAM C; *FLUID INCLUSION INVESTIGATIONS (EAR-8025263*)*; 12 MONTHS $140,200

WESTERN MICHIGAN UNIVERSITY

MEAGHER, JACK R; *ACQUISITION OF DRUM PLOTTER TO ENHANCE MULTI-DEPARTMENT RESEARCH (PRM-8026481)*; 12 MONTHS $19,800

MINNESOTA

COLLEGE OF ST SCHOLASTICA

ALICH, AGNES A; *PURCHASE OF ULTRAVIOLET/VISIBLE SPECTROPHOTOMETER (PRM-8025793)*; 12 MONTHS $18,391

UNIVERSITY OF MINNESOTA

SCHMIDT, LANNY D, AND HEXTER, ROBERT M; *REGIONAL INSTRUMENTATION FACILITY FOR SURFACE ANALYSIS (PRM-7916206 A02)*; 12 MONTHS $195,835

UNIVERSITY OF MINNESOTA AT SAINT PAUL

SCHMIDT, LANNY D, AND HEXTER, ROBERT M; *REGIONAL INSTRUMENTATION FACILITY FOR SURFACE ANALYSIS (PRM-7916206 A01)*; 12 MONTHS $147,280

MISSISSIPPI

JACKSON STATE UNIVERSITY

SULLIVAN, FRANCES E; *DECOMPOSABILITY THEOREMS FOR ASSOCIATIVE ALGEBRAS (PRM-8106832*)*; 24 MONTHS $20,900

UNIVERSITY OF SOUTHERN MISSISSIPPI

MCMURTREY, KENNETH D; *PURCHASE OF A HIGH-PERFORMANCE LIQUID CHROMATOGRAPH (PRM-8020269)*; 12 MONTHS $24,890

MISSOURI

WASHINGTON UNIVERSITY

SHULTZ, EUGENE B; *EVALUATION OF AND CONTRIBUTIONS TO THE FIVE-YEAR OUTLOOK ON SCIENCE AND TECHNOLOGY (PRM-8119828)*; 4 MONTHS $9,993

MONTANA

MONTANA STATE UNIVERSITY

LAPEYRE, GERALD J; *REGIONAL INSTRUMENTATION FACILITY FOR SURFACE SCIENCE AND SUBMICRON ANALYSIS LABORATORY (PRM-7916134 A02)*; 12 MONTHS $222,322

DAYTON, IRVING E; *AN EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE RESEARCH: PHASE B IMPLEMENTATION PLAN IN MONTANA (PRM-8011449*)*; 12 MONTHS $827,213

NEBRASKA

PERU STATE COLLEGE

PAPPAS, LARRY G; *ACQUISITION OF INSTRUMENTATION RECORDER AND RELATED EQUIPMENT FOR ELECTROPHYSIOLOGICAL RESEARCH (PRM-8107445)*; 12 MONTHS $17,176

PAPPAS, LARRY G; *ACQUISITION OF INSTRUMENTATION RECORDER AND RELATED EQUIPMENT FOR ELECTROPHYSIOLOGICAL RESEARCH (PRM-8107445 A01)*; $4,050

UNIVERSITY OF NEBRASKA AT LINCOLN

GROSS, MICHAEL L, AND MEISELS, GERHARD G; *REGIONAL INSTRUMENTATION FACILITY FOR MASS SPECTROMETRY (PRM-7818572 A02)*; 12 MONTHS $288,166

NEW HAMPSHIRE

DARTMOUTH COLLEGE

STOIBER, RICHARD E; *MASAYA VOLCANO, NICARAGUA, VOLCANOLOGY AND THE EFFECTS OF THE HIGH LEVEL OF GAS EMISSION (12R-8025719*)*; 12 MONTHS $7,000

NEW JERSEY

COMPUTER HORIZONS INC

NARIN, FRANCIS; *FEASIBILITY STUDY LINKING PATENT LITERATURE TO THE SCIENTIFIC LITERATURE THROUGH THE USE OF CITATION ANALYSIS TECHNIQUES (PLN-7801694 A03)*; $4,448

FAIRLEIGH DICKINSON UNIVERSITY-TEANECK CAMPUS

TOMASELLI, VINCENT P; *INFRARED LASER SOURCES FOR OPTICAL CONSTANT MEASUREMENTS (PRM-8017529)*; 12 MONTHS $14,432

PRINCETON UNIVERSITY

GRAY, WILLIAM G, PINDER, GEORGE F, AND CRERAR, DAVID A; *INVESTIGATION INTO THE PHYSICAL-CHEMICAL ASPECTS OF SOLUTION MINING (CEE-7920996 A01*)*; 12 MONTHS $19,000

SETON HALL UNIVERSITY

BRITTAIN, HARRY G; *ACQUISITION OF CRYOGENIC SYSTEM (PRM-8023975)*; 12 MONTHS $15,000

NEW MEXICO

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

HOLMES, CHARLES R, AND COLGATE, STIRLING A; *EQUIPMENT FOR ATMOSPHERIC AND ASTRONOMY COMPUTER (PRM-8020622)*; 12 MONTHS $25,000

UNIVERSITY OF NEW MEXICO

CALLENDER, JONATHAN F; *STRUCTURAL PETROLOGY, METAMORPHISM AND TECTONIC HISTORY OF PRECAMBRIAN ROCKS IN THE PICURIS RANGE, NEW MEXICO (EAR-8018506*)*; 36 MONTHS $84,083

NEW YORK

BARNARD COLLEGE

SILVER, RAE; *ACQUISITION OF A CENTRIFUGE AND ACCESSORIES (PRM-8100687)*; 12 MONTHS $4,995

CLARKSON COLLEGE OF TECHNOLOGY

YOUNG, THOMAS C; *INSTRUMENTATION FOR ENVIRONMENTAL ENGINEERING RESEARCH (PRM-8026754)*; 12 MONTHS $30,000

COLLEGE AT CORTLAND

GATTO, LOUIS A; *EQUIPMENT FOR RESEARCH ON THE AUTONOMIC MODULATION OF TRACHEAL GOBLET CELLS (PRM-8007314 A01)*; $3,442

COLUMBIA UNIVERSITY

MAKOWSKI, LEE; *X-RAY DIFFRACTION EQUIPMENT FOR STRUCTURAL BIOLOGY (PCM-8018658*)*; 12 MONTHS $50,000

STILL, W C; *ALAN T. WATERMAN AWARD (CHE-8115176*)*; 36 MONTHS $150,000

CORNELL UNIVERSITY

OLIVER, JACK E, JORDAN, TERESA E, AND ALLMENDINGER, RICHARD W; *INITIATION OF CORDILLERAN FORELAND DEFORMATION, IDAHO AND UTAH (EAR-8018758*)*; 24 MONTHS $70,000

OLBRICHT, WILLIAM L; *RESEARCH INITIATION: COALESCENCE OF DEFORMABLE VISCOUS DROPS IN LAMINAR FLOW (CPE-8106349*)*; 24 MONTHS $29,734

FORDHAM UNIVERSITY

KARRFALT, ERIC E; *ACQUISITION OF A RESEARCH MICROSCOPE FOR BOTANICAL STUDIES (PRM-8109086)*; 12 MONTHS $22,867

HAMILTON COLLEGE

GAPP, DAVID A; *GAMMA COUNTER AND REFRIGERATED CENTRIFUGE (PRM-8024193)*; 12 MONTHS $12,104

INDIVIDUAL AWARD

DOMINEY, WALLACE J; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166009)*; 36 MONTHS $15,400

KINDLE, KAREN L; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166020)*; 36 MONTHS $15,300

LESTER, MARSHA; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166024)*; 36 MONTHS $14,700

MANDICH, MARY L; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166026)*; 36 MONTHS $15,860

RICHARDS, JOAN; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166037)*; 36 MONTHS $15,300

WASSERMAN, IRA M; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166047)*; 36 MONTHS $15,300

DUNN, WILLIAM A; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166053)*; 36 MONTHS $15,300

GIBBS, CHARLES M; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166055)*; 36 MONTHS $15,300

MANHATTANVILLE COLLEGE

KLOTZKIN, MYRNA P; *ACQUISITION OF SURFACE AREA ANALYZER FOR COAL RESEARCH (PRM-8110720)*; 12 MONTHS $15,485

NEW YORK UNIVERSITY

LOW, MANFRED J; *STUDIES ON REACTIONS ON CARBON AND COAL SURFACES (CPE-7922100 A01*)*; 12 MONTHS $21,209

FUSFELD, HERBERT I; *AN UNSOLICITED PROPOSAL TO ASSIST NSF IN PREPARING A REPORT COMBINING THE OUTLOOK III REPORT AND THE ANNUAL REPORT (PRM-8117489)*; 12 MONTHS $19,048

RESEARCH CORPORATION-NEW YORK

MARCY, WILLARD; *ECONOMIC IMPACT ASSESSMENT OF PATENTS ASSOCIATED WITH PRINCIPAL INVESTIGATORS (EVL-8107270)*; 12 MONTHS $34,527

STATE UNIVERSITY AT STONY BROOK

METCALF, HAROLD; *TIME RESOLVED EXCITED STATE SPECTROSCOPY (PHY-7916801 A02*)*; 12 MONTHS $46,460

SYRACUSE UNIVERSITY

LUNDGREN, DONALD G; *BACTERIAL PHYSIOLOGY OF IRON: MECHANISMS OF FERRIC IRON REDUCTION (PCM-8010925*)*; 24 MONTHS $40,000

UNIVERSITY OF ROCHESTER

GOVE, HARRY E, AND PURSER, KENNETH H; *INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH ACTIVITY: ADDITIONS TO THE TANDEM ACCELERATOR FACILITY AT THE UNIVERSITY OF ROCHESTER FOR ULTRA-SENSITIVE PARTICLE IDENTIFICATION (PHY-7822698 A02*)*; $35,000

VASSAR COLLEGE

FISHER, CYNTHIA; *ACQUISITION OF DISSECTION MICROSCOPE AND CAMERA FOR RESEARCH ON EMBRYONIC INDUCTION (PRM-8109084)*; 12 MONTHS $18,480

NORTH CAROLINA

DAVIDSON COLLEGE

CAIN, LAURENCE S; *EQUIPMENT FOR MEASUREMENT OF ELASTIC PROPERTIES OF SOLIDS (PRM-8102919)*; 12 MONTHS $14,350

EAST CAROLINA UNIVERSITY

BISSINGER, GEORGE; *ACQUISITION OF AN ANALYZING MAGNET FIELD CONTROLLER FOR ACCELERATOR (PRM-8023771)*; 12 MONTHS $10,166

INDIVIDUAL AWARD

BLANTON, RICHARD L; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166003)*; 36 MONTHS $15,370

NORTH CAROLINA AGRICULTURAL & TECH STATE UNIV

ALEXANDER, WINSER E; *A MULTISPECTRAL IMAGE DISPLAY SYSTEM (PRM-8020844)*; 12 MONTHS $25,000

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

RISLEY, JOHN S; *ELECTRON EMISSION CROSS SECTIONS OF ATMOSPHERIC GASES FOR THE VACUUM ULTRAVIOLET LIGHT STANDARD PROJECT (ATM-7923610 A01*)*; 12 MONTHS $77,100

UNIVERSITY OF NORTH CAROLINA AT ASHEVILLE

STEVENS, JOHN G; *VARIABLE LOW TEMPERATURE MOSSBAUER SPECTROMETER (PRM-8020773)*; 12 MONTHS $25,000

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

GOOLKASIAN, PAULA; *MICROCOMPUTER AND TACHISTOSCOPE FOR RESEARCH IN VISUAL PERCEPTION (PRM-8014956)*; 12 MONTHS $12,574

WAKE FOREST UNIVERSITY

JACKELS, SUSAN C; *EQUIPMENT TO STUDY ELECTROCHEMISTRY OF MACROCYCLIC COMPLEXES (PRM-8109734)*; 12 MONTHS $16,500

WESTERN CAROLINA UNIVERSITY

COYLE, FREDERICK A; *ACQUISITION OF DATA PROCESSING EQUIPMENT FOR RESEARCH IN ARACHNOLOGY (PRM-8107752)*; 12 MONTHS $5,698

HARRISON, FREDERICK W; *ACQUISITION OF MICROTOME/CRYOSTAT SYSTEM FOR BIOLOGICAL OCEANOGRAPHIC RESEARCH (PRM-8107755)*; 12 MONTHS $8,102

OHIO

KENYON COLLEGE

HOPPE, RICHARD B; *DATA PROCESSING EQUIPMENT FOR RESEARCH ON LEXICAL DECISIONS (PRM-8023188)*; 12 MONTHS $5,865

MIAMI UNIVERSITY CENTRAL OFFICE

KATON, JOHN E; *COMPUTERIZED INFRARED SPECTROPHOTOMETER FOR CHEMICAL RESEARCH (PRM-8022902)*; 12 MONTHS $22,425

VAUGHN, JACK C; *ACQUISITION OF A SCINTILLATION COUNTER (PRM-8106947)*; 12 MONTHS $26,220

OBERLIN COLLEGE

CRAIG, NORMAN C; *ACQUISITION OF EQUIPMENT FOR LASER RAMAN SPECTROSCOPY (PRM-8115415)*; 12 MONTHS $17,200

OHIO STATE UNIVERSITY

BROWN, LAWRENCE A; *A COMPARATIVE ANALYSIS OF THE RELATIONSHIP BETWEEN MIGRATION AND ECONOMIC DEVELOPMENT (SES-8024565*)*; 24 MONTHS $50,000

UNIVERSITY OF AKRON MAIN CAMPUS

ROEMER, LOUIS E; *AN OPTICAL SIGNAL PROCESSING FACILITY (PRM-8025764)*; 12 MONTHS $19,690

CHYI, LINDGREN L; *ACQUISITION OF COAL ANALYZER EQUIPMENT (PRM-8026488)*; 12 MONTHS $16,870

UNIVERSITY OF CINCINNATI

BEAN, ALDEN S; *IPA MOBILITY ASSIGNMENT (ALDEN S. BEAN) (PRM-8119746)*; 24 MONTHS $5,000

BEAN, ALDEN S; *IPA MOBILITY ASSIGNMENT (PAE-8122091)*; 24 MONTHS $119,225

UNIVERSITY OF TOLEDO

FUNK, MAX O; *ACQUISITION OF SPECTROPHOTOMETER AND ACCESSORIES (PRM-8025794)*; 12 MONTHS $ 3,910

WRIGHT STATE UNIVERSITY

THOMAS, JOSEPH F; *SCANNING ELECTRON MICROSCOPE FOR MATERIALS AND GEOLOGICAL RESEARCH (PRM-8018263)*; 12 MONTHS $16,241

KANTOR, GEORGE J; *ACQUISITION OF LIQUID SCINTILLATION SPECTROMETER (PRM-8019469)*; 12 MONTHS $24,000

OKLAHOMA

UNIVERSITY OF TULSA

ROGERS, STEFFEN H; *ANCILLARY ELECTRON MICROSCOPE EQUIPMENT (PRM-8020270)*; 12 MONTHS $24,050

OREGON

INDIVIDUAL AWARD

GLICK, BARBARA B; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166014)*; 36 MONTHS $15,300

OREGON STATE UNIVERSITY

GATES, W L, ESBENSEN, STEVEN, HAN, YOUNG J, SCHLESINGER, MICHAEL E, AND KIM, JEONG-WOO; *RESEARCH ON THE DYNAMICS OF CLIMATE (ATM-8001702 A02*)*; 6 MONTHS $88,750

PORTLAND STATE UNIVERSITY

GARD, GARY L; *EQUIPMENT FOR STUDIES OF METHODS FOR INCREASING THE SURFACE AREA OF COALS (PRM-8024194)*; 12 MONTHS $17,010

REED COLLEGE

STAFFORD, HELEN A; *ACQUISITION OF SCINTILLATION COUNTER (PRM-8021641)*; 12 MONTHS $24,000

UNIVERSITY OF OREGON - EUGENE

SAVAGE, NORMAN M; *ORDOVICIAN THROUGH PENNSYLVANIAN BIOSTRATIGRAPHIC STUDIES ON PRINCE OF WALES ISLAND AND NEARBY ISLANDS, SOUTHEASTERN ALASKA (EAR-8022210*)*; 24 MONTHS $100,150

LEFEVRE, HARLAN W; *DEVELOPMENT OF NUCLEAR TECHNIQUES AND INSTRUMENTS - PLASMA LENS, ION MICROPROBE, ION INDUCED ACOUSTIC WAVES, FAST NEUTRON TOMOGRAPHY (PHY-8100214*)*; 12 MONTHS $93,000

PENNSYLVANIA

BRYN MAWR COLLEGE

RICHMOND, GERALDINE L; *EQUIPMENT FOR LASER OPTOACOUSTIC SPECTROSCOPY OF LIQUIDS (PRM-8018969)*; 12 MONTHS $24,780

SWINDELL, CHARLES S; *ACQUISITION OF LIQUID CHROMATOGRAPHY AND ACCESSORIES (PRM-8100521)*; 12 MONTHS $24,220

ABRAHAM, NEAL B; *ACQUISITION OF A BOXCAR INTEGRATOR CORRELATOR FOR QUANTUM OPTICS AND NUCLEAR SPIN RELAXATION RESEARCH (PRM-8102189)*; 12 MONTHS $21,000

BUCKNELL UNIVERSITY

HEINE, HAROLD W; *ACQUISITION OF A GAS CHROMATOGRAPH (PRM-8021346)*; 12 MONTHS $25,000

DREXEL UNIVERSITY

VERYKIOS, XENOPHON E; *EQUIPMENT FOR CATALYSIS RESEARCH (PRM-8021109)*; 12 MONTHS $25,000

FRANKLIN AND MARSHALL COLLEGE

SPENCER, JAMES N; *ACQUISITION OF SPECTROPHOTOMETER (PRM-8102879)*; 12 MONTHS $35,000

DAWSON, DENNIS W; *ACQUISITION OF A GRATING SPECTROGRAPH SYSTEM FOR ASTRONOMICAL RESEARCH (PRM-8108088)*; 12 MONTHS $8,850

INDIANA UNIVERSITY OF PENNSYLVANIA

PATSIGA, ROBERT A; *HIGH PERFORMANCE GEL PERMEATION CHROMATOGRAPH (PRM-8023189)*; 12 MONTHS $12,890

INDIVIDUAL AWARD

MULLIN, JAMES M; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166058)*; 36 MONTHS $15,300

INSTITUTE FOR SCIENTIFIC INFORMATION INC

MALIN, MORTON V; *LICENSING AGREEMENT FOR USE OF SCIENCE CITATION INDEX DATA BASE (EVL-7806769 A04)*; 12 MONTHS $12,500

LAFAYETTE COLLEGE

FRIED, BERNARD; *STEREO MICROSCOPE AND VIDEOTAPE EQUIPMENT (PRM-8025791)*; 12 MONTHS $16,300

MORAVIAN COLLEGE

KUSERK, FRANK T; *ACQUISITION OF CHEMOSTAT AND RESEARCH MICROSCOPES FOR ECOLOGICAL STUDIES (PRM-8105775)*; 12 MONTHS $15,000

PENNSYLVANIA STATE UNIVERSITY

HOULIHAN, JOHN F; *EQUIPMENT TO STUDY PHOTOELECTROCHEMICAL PROPERTIES (PRM-8018721)*; 12 MONTHS $9,935

CARDAMONE, MICHAEL J; *ACQUISITION OF PHOTON COUNTING SYSTEM (PRM-8019686)*; 12 MONTHS $25,000

SOCIETY FOR INDUSTRIAL AND APPLIED MATH (SIAM)

BLOCK, I EDWARD; *CONFERENCE ON DEEP MINERAL RESOURCES: MATHEMATICAL AND COMPUTATIONAL METHODS IN MINERAL EXPLORATION AND EXTRACTION, MARCH 1981 (MCS-8022850*);* 12 MONTHS $29,975

ST JOSEPH'S UNIVERSITY

FELLOWS, ROBERT J; *ACQUISITION OF LIQUID SCINTILLATION COUNTER (PRM-8021958);* 12 MONTHS $23,230

SWARTHMORE COLLEGE

SAFFO, MARY B; *ACQUISITION OF ANCILLARY EQUIPMENT FOR ELECTRON MICROSCOPY (PRM-8022920);* 12 MONTHS $28,022

JACOBS, MARK; *ACQUISITION OF AN ULTRACENTRIFUGE (PRM-8022922);* 12 MONTHS $24,760

UNIVERSITY OF PENNSYLVANIA

HOCHSTRASSER, ROBIN M; *REGIONAL INSTRUMENTATION FACILITY FOR LASER AND RESEARCH (PRM-7818719 A02);* 4 MONTHS $83,204

HOCHSTRASSER, ROBIN M; *REGIONAL INSTRUMENTATION FACILITY FOR LASER AND RESEARCH (PRM-7818719 A03);* $9,600

HOCHSTRASSER, ROBIN M; *REGIONAL INSTRUMENTATION FACILITY FOR LASER AND RESEARCH (PRM-7818719 A04);* 12 MONTHS $231,494

VILLANOVA UNIVERSITY

LONG, GERALD M; *ACQUISITION OF TACHISTOSCOPE AND ACCESSORIES (PRM-8100524);* 12 MONTHS $6,705

WILKES COLLEGE

CASE, JAMES M; *EQUIPMENT TO STUDY GEOCHEMICAL PATHWAYS OF TELLURIUM, SELENIUM, ARSENIC, AND SULFUR (PRM-8022919);* 12 MONTHS $24,970

PUERTO RICO

UNIV OF PUERTO RICO MEDICAL SCIENCES CAMPUS

GEORGE-NASCIMEN, CARLOS; *PROTEASES ASSOCIATED WITH MITOCHONDRIAL MEMBRANES (PRM-8109742*);* 36 MONTHS $100,000

UNIVERSITY OF PUERTO RICO, MAYAGUEZ

SOUTO, FERNANDO A; *EQUIPMENT FOR SPECTROPHOTOMETRIC AND KINETIC PHOTOELECTROCHEMICAL CHARACTERIZATION OF NEW THIAZINE DYES (PRM-8019833);* 12 MONTHS $25,000

UNIVERSITY OF PUERTO RICO, RIO PIEDRAS

CANDELAS, GRACIELA C; *STUDIES ON TRANSLATION IN A SPIDER FIBROIN (PCM-8103284*);* 12 MONTHS $23,400

RHODE ISLAND

BROWN UNIVERSITY

HENDERSON, J VERNON; *AN EMPIRICAL ANALYSIS OF THE DETERMINANTS OF CITY, METROPOLITAN AREA AND REGIONAL SIZES (SES-8013482*);* 24 MONTHS $73,000

INDIVIDUAL AWARD

LANDAHL, KAREN L; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166021);* 36 MONTHS $15,700

SOUTH CAROLINA

COLLEGE OF CHARLESTON

MERRILL, GLEN K; *PURCHASE OF A SCANNING ELECTRON MICROSCOPE (PRM-8025798);* 12 MONTHS $25,000

FURMAN UNIVERSITY

BONNY, ALAN; *ACQUISITION OF GAS CHROMATOGRAPHY SYSTEM (PRM-8026482);* 12 MONTHS $18,367

BONNY, ALAN; *ACQUISITION OF CONTROLLED ATMOSPHERE SYSTEM (PRM-8108757);* 12 MONTHS $24,243

KANE-MAGUIRE, NOEL; *ACQUISITION OF DYE LASER (PRM-8109082);* 12 MONTHS $24,857

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA

DURIG, JAMES R, AND ELLIS, PAUL D; *REGIONAL INSTRUMENTAL FACILITY FOR NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY (PRM-7818723 A03);* 12 MONTHS $208,248

DURIG, JAMES R; *AN EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE RESEARCH: PHASE B IMPLEMENTATION PLAN IN SOUTH CAROLINA (PRM-8011451 A01*);* 12 MONTHS $713,361

TENNESSEE

INDIVIDUAL AWARD

FISCHER, RANDY S; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8146013);* 36 MONTHS $15,300

PELUSO, RICHARD W; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166031);* 36 MONTHS $15,300

MEHARRY MEDICAL COLLEGE

MCGINNIS, ETHELEEN; *ROLE OF DNA SUPERSTRUCTURES IN CONTROL OF CELL PROLIFERATION (PRM-8115076*);* 36 MONTHS $122,490

MEMPHIS STATE UNIVERSITY

COOKE, DAVID W; *ACQUISITION OF GRAPHIC COMPUTING SYSTEM (PRM-8021957);* 12 MONTHS $22,645

TEXAS

INDIVIDUAL AWARD

ELLIS, GARY B; *1981 NSF POSTDOCTORAL FELLOWSHIP PRO (PDF-8166011);* 36 MONTHS $15,300

READ, STEPHEN J; *1981 NSF POSTDOCTORAL FELLOWSHIP PRO (PDF-8166036);* 36 MONTHS $15,835

UNIV OF TEXAS AT ARLINGTON

BLAKE, DANIEL M; *PURCHASE OF AN INFRARED SPECTROM AND ACCESSORIES (PRM-8108132);* 12 MONTHS $24,017

SCHELLY, ZOLTAN A; *ACQUISTION OF RSPID SCAN TIME-RESO SPECTROMETER (PRM-8108292);* 12 MONTHS $22,545

UNIV OF TEXAS AT AUSTIN

MCDOWELL, FRED W; *STUDIES OF VOLCANIC ROCKS OF WES MEXICO (EAR-8025368*);* 24 MONTHS $93,926

WILLIAMS, LAWRENCE R; *QUASISIMILARITY OF OPERATORS 8101588*);* 24 MONTHS $18,049

UNIV OF TEXAS AT DALLAS

COLLINS, CARL B; *INVESTIGATION OF THE DISSOCIATIVE ELEC IC STATES OF SIMPLE MOLECULES (PHY-8019525*);* 12 MONTHS $48

RODMAN, JOHN A; *EXPERIMENTAL PROJECT: THE DEVELOP AND IMPLEMENTATION OF A KEYWORD THESAURUS (29N-8109* MONTHS $17,305

UNIV OF TEXAS AT EL PASO

HERNDON, WILLIAM C; *ACQUISITION OF INFRARED SPECTROP METER AND DATA STATION (PRM-8110781);* 12 MONTHS $35,000

UNIV OF TEXAS OF THE PERMIAN BASIN

MULLER, PAMELA H; *ACQUISITION OF INSTRUMENTATION DEPTH STUDIES OF SYMBIONT-BEARING FORAMINIFERA 8112906);* 12 MONTHS $9,500

VERMONT

MIDDLEBURY COLLEGE

REINGOLD, I D; *ACQUISITION OF MASS SPECTROMETER (PRM-80* 12 MONTHS $18,000

COISH, RAY A; *PURCHASE OF A USED ELECTRON MICROPROBE 8104644);* 12 MONTHS $30,000

VIRGINIA

BRIDGEWATER COLLEGE

HILL, L MICHAEL; *ACQUISITION OF RESEARCH MICROSCOPE 8016238);* 12 MONTHS $10,800

COLLEGE OF WILLIAM AND MARY

SCHIAVELLI, MELVYN D; *ACQUISITION OF COMPUTING EQUIP FOR SECONDARY ISOTOPE EFFECTS RESEARCH (PRM-810565* MONTHS $20,230

DEFOTIS, GARY C; *ACQUISITION OF EQUIPMENT FOR MAGN RESEARCH (PRM-8107444);* 12 MONTHS $34,624

GEORGE MASON UNIVERSITY

ROYT, PAULETTE W; *ACQUISITION OF LIQUID SCINTILL COUNTER (PRM-8023686);* 12 MONTHS $15,660

HOLLINS COLLEGE

BOATMAN, SANDRA; *ACQUISITION OF ULTRACENTRIFUGE ROTORS (PRM-8025799);* 12 MONTHS $34,635

JAMES MADISON UNIVERSITY

DENDINGER, JAMES E; *ACQUISITION OF SALT WATER AQUA FOR CRUSTACEAN RESEARCH (PRM-8100533);* 12 MONTHS $5,940

RADFORD UNIVERSITY

BOGGESS, ROBERT K; *ELECTROCHEMICAL INSTRUMENTATION 8025795);* 12 MONTHS $11,300

MALONEY, MICHAEL S; *ACQUISITION OF MICROSCOPIC EQUIP (PRM-8026757);* 12 MONTHS $13,000

UNIVERSITY OF VIRGINIA

MILLS, AARON L; *KINETIC, ISOTOPIC, AND MICROBIAL INVES TION OF SULFIDE MINERAL OXIDATION AND ACID MINE WA E MATION (EAR-7911144 A03*);* 12 MONTHS $67,100

LARSON, DANIEL J; *STORED ATOM RESEARCH (PHY-802105* MONTHS $53,000

VIRGINIA COMMONWEALTH UNIVERSITY

BUTLER, CHARLES T; *ACQUISITION OF HELIUM LEAK DET (PRM-8023502);* 12 MONTHS $11,680

VIRGINIA POLYTECHNIC INSTITUTE

SMITH, HAMPTON D; *THE CHEMISTRY OF CARBORANE LIGAND-TRANSITION METAL COMPLEXES (PRM-8105657*);* 36 MO $93,620

WASHINGTON

EASTERN WASHINGTON UNIVERSITY

STEELE, WILLIAM K; *GEODETIC GRAVIMETER FOR GRAVITY VEYS OF SELECTED AREAS OF NORTHEASTERN WASHINGTON 8019325);* 12 MONTHS $19,663

INDIVIDUAL AWARD

WHITE, FRANK F; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166050)*; 36 MONTHS $15,680

UNIVERSITY OF WASHINGTON

DIAZ, JAIME; *THE VULNERABILITY OF THE BRAIN GROWTH SPURT: A NEW EXPERIMENTAL APPROACH (PRM-8114914*)*; 36 MONTHS $146,745

WESTERN WASHINGTON UNIVERSITY

SUCZEK, CHRISTOPH A; *DEPOSITIONAL ENVIRONMENT AND PALEOGEOGRAPHY OF THE VALMY FORMATION QUARTZITES, NORTH-CENTRAL NEVADA (EAR-8025880*)*; 12 MONTHS $22,913

WISCONSIN

INDIVIDUAL AWARD

VOGELMANN, THOMAS C; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166046)*; 36 MONTHS $16,500

FAGAN, PAUL J; *1981 NSF POSTDOCTORAL FELLOWSHIP PROGRAM (PDF-8166054)*; 36 MONTHS $15,480

MARQUETTE UNIVERSITY

CREMER, SHELDON E; *PROTON NMR SPECTROMETER (PRM-8020268)*; 12 MONTHS $31,380

RYAN, MICHAEL D; *ACQUISITION OF ELECTROCHEMICAL EQUIPMENT FOR ORGANIC AND INORGANIC RESEARCH (PRM-8106653)*; 12 MONTHS $10,800

SCHEFFEL, JAMES W; *ACQUISITION OF GAMMA COUNTING SYSTEM (PRM-8109733)*; 12 MONTHS $19,425

RIPON COLLEGE

SCAMEHORN, RICHARD G; *ACQUISITION OF GAS CHROMATOGRAPH AND RECORDER (PRM-8021046)*; 12 MONTHS $9,985

UNIVERSITY OF WISCONSIN-MADISON

WILSON, FRANKLIN D; *MIGRATION, SOCIOECONOMIC ATTAINMENT, AND DIFFERENTIAL OPPORTUNITY STRUCTURES (SES-7826853 A01*)*; 12 MONTHS $40,000

SCHRAG, JOHN L; *MOTIONS AND CONFORMATIONAL PROPERTIES OF MACROMOLECULES IN SOLUTION (DMR-7925090 A01*)*; 12 MONTHS $81,000

TAEUBER, KARL E; *THE TREND IN RESIDENTIAL SEGREGATION (SES-8025543*)*; 24 MONTHS $135,000

UNIVERSITY OF WISCONSIN-STEVENS POINT

BEEKEN, ROBERT B; *ACQUISITION OF X-RAY DIFFRACTION UNIT AND CRYOSTAT (PRM-8109738)*; 12 MONTHS $24,750

WYOMING

UNIVERSITY OF WYOMING

MENA, ROBERTO A; *FINITE COMBINATORIAL STRUCTURES--GRAPHS AND DESIGNS (PRM-8104578*)*; 24 MONTHS $24,000

SCIENCE AND ENGINEERING EDUCATION AND FELLOWSHIPS

SCIENCE EDUCATION

ALABAMA

ALABAMA AGRICULTURAL AND MECHANICAL UNIVERSITY

JONES, JEANETTE; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-7910144 A02)*; 15 MONTHS $2,400

JONES, JEANETTE; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010745 A01)*; $2,880

DALY, JERRY; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101017)*; 18 MONTHS $19,885

SHIPMAN, JERRY R; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106848)*; 17 MONTHS $30,000

HENDERSON, WILEY J; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106855)*; 17 MONTHS $37,500

ALEXANDER CITY STATE JUNIOR COLLEGE

BRANCH, JOSEPH W; *UPGRADING GENERAL CHEMISTRY LABORATORY PROGRAM (SER-8162294)*; 24 MONTHS $2,630

AUBURN UNIVERSITY AT MONTGOMERY

COOPER, WILLIAM E; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101500)*; 12 MONTHS $9,383

AUBURN UNIVERSITY MAIN CAMPUS

WEAVER, ANDREW M; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101058)*; 12 MONTHS $26,672

INDIVIDUAL AWARD

SMITH, KARL D; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165047)*; 42 MONTHS $21,600

GOURDOUZE, ROBBYN A; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165119)*; 42 MONTHS $24,606

LURLEEN B WALLACE STATE JUNIOR COLLEGE

LIN, FRANK C; *CAUSE - IMPROVEMENT OF MATHEMATICS, BIOLOGY, CHEMISTRY AND SOCIAL SCIENCE INSTRUCTION USING COMPUTERS (SER-8103815)*; 36 MONTHS $250,000

MILES COLLEGE

WEST, FREDERICK R; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106407)*; 17 MONTHS $20,648

SELMA UNIVERSITY

RAJANNA, BETTAIYA; *STUDENT SCIENCE TRAINING (SPI-8024593)*; 10 MONTHS $31,230

SHELTON STATE COMMUNITY COLLEGE

COOPER, WILLIAM W; *IMPROVEMENT OF INSTRUCTION IN HUMAN ANATOMY AND PHYSIOLOGY LABORATORY (SER-8163374)*; 24 MONTHS $15,302

TALLADEGA COLLEGE

BACON, ARTHUR L; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106361)*; 17 MONTHS $30,000

TUSKEGEE INSTITUTE

LESTER, WILLIAM L; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010742 A01)*; 27 MONTHS $2,880

WINDHAM, HERMAN L; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101497)*; 12 MONTHS $21,122

LESTER, WILLIAM L; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8160003)*; 36 MONTHS $47,400

LUDWICK, ADRIANE G; *INSTRUCTIONAL EQUIPMENT FOR AN UNDERGRADUATE POLYMER CHEMISTRY LABORATORY (SER-8163106)*; 24 MONTHS $9,550

UNIVERSITY OF ALABAMA

HAND, CLIFFORD W; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025428)*; 12 MONTHS $21,849

OSBORNE, JAMES B; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8160112)*; 22 MONTHS $20,000

MURPHY, JOE; *INSTRUMENTATION FOR GENERAL CHEMISTRY LABORATORIES (SER-8162727)*; 24 MONTHS $10,150

WHITTLE, GEORGE P; *IMPROVEMENT OF ENVIRONMENTAL ENGINEERING LABORATORY (SER-8162739)*; 24 MONTHS $4,925

UNIVERSITY OF ALABAMA IN BIRMINGHAM

KRANNICH, LARRY K; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101167)*; 18 MONTHS $23,982

UNIVERSITY OF MONTEVALLO

MERIJANIAN, ARIS; *STUDENT SCIENCE TRAINING (SPI-8024028)*; 10 MONTHS $26,780

ALASKA

UNIVERSITY OF ALASKA ANCHORAGE CAMPUS

WORKMAN, WILLIAM B; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026360)*; 12 MONTHS $11,405

ARIZONA

ARIZONA STATE UNIVERSITY

MC NEILL, BARRY W; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026315)*; 12 MONTHS $21,567

TILLERY, BILL W; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101386)*; 12 MONTHS $49,927

BITTER, GARY G; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101443)*; 18 MONTHS $33,049

ANDERSON, MARY R; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8160154)*; 30 MONTHS $99,241

NORTHERN ARIZONA UNIVERSITY

ALLEN, GARY G; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100568)*; 12 MONTHS $49,936

SCOTTSDALE CMTY COLLEGE

WOZNIAK, MATTHEW J; *A MICROCOMPUTER AND MICROELECTRONICS ENHANCED ENGINEERING/ PHYSICS LABORATORY PROGRAM (SER-8163627)*; 24 MONTHS $20,000

UNIVERSITY OF ARIZONA

STEINBRENNER, ARTHUR H; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101417)*; 12 MONTHS $29,849

MEADE-TOLLIN, LINDA C, AND MAC CORQUODALE , PATRICIA; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8160129)*; 13 MONTHS $19,996

ARKANSAS

ARKANSAS COLLEGE

BOARD, VERYL V; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101614)*; 18 MONTHS $14,305

ARKANSAS STATE UNIVERSITY MAIN CAMPUS

BISHOP, THOMAS D; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8102059)*; 12 MONTHS $25,653

HENDRIX COLLEGE

ROBERTSON, HAROLD; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101457)*; 12 MONTHS $23,972

SOUTHERN BAPTIST COLLEGE

CORDER, STEPHEN; *IMPROVING SCIENCE INSTRUCTION UTILIZING MICROCOMPUTERS (SER-8163221)*; 24 MONTHS $3,445

UNIVERSITY OF ARKANSAS FAYETTEVILLE

PEDERSON, DONALD O; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025676)*; 12 MONTHS $17,530

SCHWAB, WILLIAM A; *INTEGRATING RESEARCH METHODS AND MATERIALS INTO A SOCIOLOGY CURRICULUM (SER-8160815)*; 30 MONTHS $30,000

THOMA, JOHN A; *A NOVEL CHEMISTRY HEALTH SCIENCE LABORATORY (SER-8162041)*; 24 MONTHS $11,640

UNIVERSITY OF ARKANSAS MED SCIENCES CAMPUS

VOLDENG, A NELSON; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025702)*; 12 MONTHS $11,850

UNIVERSITY OF ARKANSAS, LITTLE ROCK

BUFFALO, M D; *IMPROVEMENT OF COMPUTER LITERACY IN SOCIAL SCIENCE UNDERGRADUATES (SER-8163121)*; 24 MONTHS $6,502

UNIVERSITY OF ARKANSAS, PINE BLUFF

WILLINGHAM, WILLIAM M; *STUDENT SCIENCE TRAINING (SPI-8024804)*; 10 MONTHS $26,312

WILLINGHAM, WILLIAM M; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106395)*; 17 MONTHS $27,161

CALIFORNIA

AMERICAN RIVER COLLEGE

MICHEL-EVLETH, WILLIAM; *EQUIPMENT FOR THE CHEMISTRY DEPARTMENT MICROCOMPUTER RESOURCE CENTER (SER-8162232)*; 24 MONTHS $18,900

AMPEX CORPORATION

MALLINSON, JOHN C; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160215)*; 18 MONTHS $10,000

CALIFORNIA POLYTECHNIC ST UNIV,SAN LUIS OBISPO

STROHMAN, ROLLIN D; *MICROCOMPUTER PERIPHERAL AIDS FOR ENGINEERING EDUCATION (SER-8163157)*; 24 MONTHS $1,519

CALIFORNIA STATE COLLEGE, BAKERSFIELD

COASH, JOHN R; *NATIONAL ASSOCIATION OF GEOLOGY TEACHERS COOPERATIVE DISSEMINATION PROJECT (SER-8024243)*; 18 MONTHS $11,446

SUTER, STEVEN E; *STUDENT SCIENCE TRAINING (SPI-8024946)*; 10 MONTHS $12,242

MITCHELL, STEVEN W; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026408)*; 12 MONTHS $8,676

GEIGLE, RAY A; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101404)*; 12 MONTHS $30,846

WEINHEIMER, TED; *EQUIPMENT FOR UNDERGRADUATE CELL BIOLOGY (SER-8162261)*; 24 MONTHS $2,726

CALIFORNIA STATE POLYTECHNIC UNIV, POMONA

SPERRY, PAMELA J; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026274)*; 12 MONTHS $21,789

CALIFORNIA STATE UNIVERSITY, CHICO

BULL, JOHN A; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100940)*; 12 MONTHS $40,353

CALIFORNIA STATE UNIVERSITY, FULLERTON

STREITBERGER, ERIC; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-7901225 A02)*; 12 MONTHS $3,500

SICA, MORRIS; *RESEARCH TO PROMOTE SCIENCE LEARNING AMONG BLIND STUDENTS IN COLLEGES AND UNIVERSITIES (SED-7920597 A01)*; 6 MONTHS $20,596

CARLSON, GAYLEN R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8000374 A01)*; 4 MONTHS $1,450

NAGEL, GLENN M; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026262)*; 12 MONTHS $21,964

COLLEA, FRANCIS P; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101141)*; 12 MONTHS $47,811

COLLEA, FRANCIS P; *SCIENCE TEACHING AND THE DEVELOPMENT OF REASONING: A DISSEMINATION PLAN (SER-8160344)*; 12 MONTHS $29,915

ADAMS, RAYMOND V; *UNDERGRADUATE EXPERIMENTAL PHYSICS (SER-8162311)*; 24 MONTHS $12,804

SOWELL, EDWARD F; *ESTABLISHMENT OF COMPUTER GRAPHICS LABORATORY AND INSTRUCTIONAL MODES (SER-8162317)*; 24 MONTHS $20,000

CALIFORNIA STATE UNIVERSITY, HAYWARD

MORGAN, CHRISTOPH L; *COMPUTER GRAPHICS PROJECT (SER-8162354)*; 24 MONTHS $11,486

CALIFORNIA STATE UNIVERSITY, LONG BEACH

RITZ, WILLIAM C; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101408)*; 18 MONTHS $28,071

RITZ, WILLIAM C; *SCIENCING THE CALIFORNIA SCHOOL IMPROVEMENT PROGRAM (SER-8160382)*; 24 MONTHS $29,906

MILLER, EDWARD; *DESIGN-ORIENTED OCEAN ENGINEERING LABORATORY COURSE (SER-8160968)*; 30 MONTHS $24,511

CALIFORNIA STATE UNIVERSITY, LOS ANGELES

PAULSON, DONALD R; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024939)*; 22 MONTHS $54,474

BRAGIN, JOSEPH; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026824)*; 12 MONTHS $21,570

JEFFERSON, MARGARET C; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106380)*; 17 MONTHS $30,000

KEYS, RICHARD T; *COMPUTER INTERFACING IN THE PHYSICAL CHEMISTRY LABORATORY (SER-8160984)*; 30 MONTHS $21,228

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

FIELSTRA, HELEN; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101388)*; 18 MONTHS $45,076

LANDIS, RAYMOND B; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106417)*; 17 MONTHS $40,000

CAMPBELL, BONITA J; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8160141)*; 24 MONTHS $99,984

DIXIE SCHOOL DISTRICT

SALTINSKI, RONALD; *MIDDLE SCHOOL MICROCOMPUTER STATISTICS LABORATORY (SED-8024417)*; 11 MONTHS $10,035

DOMINICAN COLLEGE OF SAN RAFAEL

LEPAGE, FRANCOISE; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100951)*; 18 MONTHS $30,990

FRESNO PACIFIC COLLEGE

WIEBE, ARTHUR J; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100095)*; 24 MONTHS $47,370

HARVEY MUDD COLLEGE

TANENBAUM, B SAMUEL; *STUDENT SCIENCE TRAINING (SPI-8024032)*; 10 MONTHS $25,060

KUBOTA, MITSURU; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026414)*; 12 MONTHS $13,200

RAE, JOHN B; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101400)*; 12 MONTHS $26,815

TANENBAUM, B SAMUEL; *CAUSE - COMPUTER GRAPHICS AND COMPUTER-ASSISTED DESIGN (SER-8104802)*; 36 MONTHS $230,000

CAMPBELL, J A; *EQUIPMENT FOR PHYSICAL CHEMISTRY LABORATORY (SER-8162318)*; 24 MONTHS $12,450

HUMBOLDT STATE UNIVERSITY

BUTLER, JOHN E; *STUDENT SCIENCE TRAINING (SPI-8024135)*; 10 MONTHS $37,382

INDIVIDUAL AWARD

LAPPE', MARC; *PROGRAM IN THE STUDY OF VALUES ANALYSIS AND ETHICAL IMPLICATIONS OF PUBLIC HEALTH RESEARCH AT THE UNIVERSITY OF CALIFORNIA, BERKELEY (29P-8114338)*; 12 MONTHS $18,086

BROWN, WALTER N; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165003)*; 42 MONTHS $28,800

BURNS, JOHN W; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165004)*; 42 MONTHS $28,949

EVANS, KENNETH J; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165008)*; 42 MONTHS $25,379

GRABINER, JUDITH V; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165014)*; 42 MONTHS $22,440

STROHMAN, ROLLIN D; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165024)*; 41 MONTHS $8,040

VALENCIA, SHIRLEY M; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165026)*; 42 MONTHS $13,861

BUSENBERG, STAVROS N; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165035)*; 42 MONTHS $29,203

DALY, JAMES E; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165051)*; 42 MONTHS $29,039

KUBOTA, MITSURU; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165056)*; 42 MONTHS $15,815

PETERSON, JUANITA J; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165075)*; 39 MONTHS $24,000

DAVIS, STEPHEN D; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165080)*; 42 MONTHS $28,937

TURNER, GEORGE D; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165099)*; 37 MONTHS $7,000

ELEUTERIO, MARIANNE K; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165122)*; 42 MONTHS $3,000

INTERNATIONAL BUSINESS MACHINES CORPORATION-SAN JOSE RESEARCH LABORATORY

EDWARDS, WARREN; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160218)*; 18 MONTHS $30,000

LONG BEACH CITY COLLEGE

SHIFFLETT, HOWARD R; *EQUIPMENT PROGRAM FOR AN HONORS COURSE IN EARTHQUAKE STUDIES AND OTHER ANCILLARY GEOLOGY COURSES (SER-8162290)*; 24 MONTHS $8,268

MID-PENINSULA CONVERSION PROJECT INC

MC FADDEN, DAVID W; *PLANNING A COMMUNITY/SCIENTIST EMPLOYMENT DEVELOPMENT NETWORK IN SANTA CLARA COUNTY, CALIFORNIA (OSS-8016338)*; 12 MONTHS $55,356

MOORPARK COLLEGE

HARPER, CLINTON D; *OPTICS EQUIPMENT FOR THE ENHANCEMENT OF INSTRUCTION IN PHYSICS AND LASER ELECTRO-OPTICS TECHNOLOGY (SER-8162261)*; 24 MONTHS $8,650

MOUNT ST MARY'S COLLEGE

BOWER, ANNETTE; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026257)*; 12 MONTHS $10,000

BOWER, ANNETTE; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8160124)*; 36 MONTHS $134,398

OCCIDENTAL COLLEGE

KEELEY, JON E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026205)*; 12 MONTHS $13,098

ORANGE COAST COLLEGE

LOW, DON R; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8160167)*; 24 MONTHS $19,990

POMONA COLLEGE

HANSCH, CORWIN; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025695)*; 12 MONTHS $10,900

PRISM PRODUCTIONS INC

HERBERT, DON; *SCIENCE PROGRAMS FOR COMMERCIAL TELEVISION (OSS-8016824)*; 12 MONTHS $207,864

HERBERT, DON; *SCIENCE PROGRAMS FOR COMMERCIAL TELEVISION (OSS-8016824 A01)*; 12 MONTHS $213,142

RESOURCE TRANSISTIONS INC

COHN, JOHN, AND STAYTON, ROBERT; *A COMMUNITY ENERGY PLANNING PROJECT FOR SANTA CRUZ COUNTY (SSS-8016923)*; 12 MONTHS $63,829

SAN DIEGO STATE UNIVERSITY

BRANCA, NICHOLAS A; *PROBLEM-SOLVING PROCESSES OF ELEMENTARY AND JUNIOR HIGH SCHOOL MATHEMATICS STUDENTS (SED-7919617 A01)*; 12 MONTHS $63,570

SILVER, EDWARD A; *SYNTHESIS OF RESEARCH RELATED TO MATHEMATICS PROBLEM-SOLVING INSTRUCTION (SED-8019328)*; 24 MONTHS $149,561

DEATON, EDMUND I; *STUDENT SCIENCE TRAINING (SPI-8024114)*; 10 MONTHS $31,676

GRUBBS, EDWARD J; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026312)*; 12 MONTHS $22,000

MARSHAK, CELIA L; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8160130)*; 27 MONTHS $99,863

JENSEN, REILLY C; *MICROCOMPUTER AIDED INSTRUCTION IN GENERAL CHEMISTRY (SER-8162760)*; 24 MONTHS $10,000

SAN JOSE STATE UNIVERSITY

PHILLIPS, VERIL L; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101360)*; 12 MONTHS $31,478

CONRADSON, DIANE R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101416)*; 18 MONTHS $38,612

SANTA ANA COLLEGE

DOBOS, DAVID E; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8006032 A02)*; 12 MONTHS $1,250

SRI INTERNATIONAL

LORENTS, DONALD C; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160201)*; 18 MONTHS $31,000

STANFORD UNIVERSITY

ZIMBARDO, PHILIP G; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101164)*; 12 MONTHS $38,628

GROSS, RICHARD E; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101264)*; 12 MONTHS $38,209

THE EXPLORATORIUM

OPPENHEIMER, FRANK; *A SERIES OF MUSEUM EXHIBITS ON ELECTRICITY (OSS-8114652)*; 24 MONTHS $329,000

UNIVERSITY OF CALIFORNIA, BERKELEY

KARPLUS, ROBERT; *MODULES FOR THE DEVELOPMENT OF REASONING IN MATHEMATICS (SED-7926662 A01)*; 12 MONTHS $39,900

THIER, HERBERT D; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100884)*; 18 MONTHS $43,686

MILLER, JOHN D; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101409)*; 18 MONTHS $43,990

WHITE, JENNIFER M; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101410)*; 12 MONTHS $31,598

HELMHOLZ, A CARL; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101426)*; 12 MONTHS $49,933

THIER, HERBERT D; *INTRODUCTION TO SCIENCE CAREERS FOR HEARING-IMPAIRED STUDENTS: BIOLOGY, CHEMISTRY, PHYSICS, COMPUTERS (SPI-8104902)*; 12 MONTHS $49,938

KARPLUS, ROBERT; *MATHEMATICAL REASONING IMPROVEMENT STUDY (MRIS) (SED-8109271)*; 24 MONTHS $198,270

LINN, MARCIA C; *ACQUISITION OF SCIENCE LITERACY IN- AND OUT-OF-SCHOOL: EMPHASIS ON SEX-DIFFERENCES (SED-8112631)*; 24 MONTHS $199,790

LOWERY, LAWRENCE F; *MATHEMATICS WITH CALCULATORS IN REGULAR AND SPECIAL EDUCATION (SER-8160379)*; 12 MONTHS $29,613

SOMERTON, WILBUR H; *MESA LEADERSHIP CONFERENCES (SER-8160394)*; 18 MONTHS $49,318

UNIVERSITY OF CALIFORNIA, DAVIS

PERKES, VICTOR A; *STUDENT SCIENCE TRAINING (SPI-8023986)*; 10 MONTHS $27,285

PERKES, VICTOR A; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100580)*; 18 MONTHS $25,877

UNIVERSITY OF CALIFORNIA, IRVINE

BORK, ALFRED M; *DEVELOPMENT OF REASONING SKILLS IN EARLY ADOLESCENCE (SED-7919021 A01)*; 6 MONTHS $28,000

MAC MILLEN, RICHARD E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8[illegible]6621)*; 12 MONTHS $6,600

BORK, ALFRED M; *NETWORK FOR EDUCATING TEACHERS OF SCIENCE IN APPLYING COMPUTERS TO PRECOLLEGE INSTRUCTION (SED-8111227)*; 24 MONTHS $51,128

BORK, ALFRED M; *DYNAMIC READING FROM COMPUTER SCREENS - LEARNER CONTROL (SED-8112378)*; 15 MONTHS $125,925

BORK, ALFRED M; *INDIVIDUAL AND GROUP BEHAVIOR IN COMPUTER-BASED LEARNING OF SCIENTIFIC REASONING (SED-8112633)*; 18 MONTHS $116,739

UNIVERSITY OF CALIFORNIA, LOS ANGELES

JAMES, THOMAS W; *ANALYTICAL INSTRUMENTATION IMPROVEMENT IN CELLULAR BIOLOGY LABORATORIES (SER-8163260)*; 24 MONTHS $19,545

UNIVERSITY OF CALIFORNIA, RIVERSIDE

HENRY, HELEN L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026432)*; 12 MONTHS $17,442

WILD, ROBERT L; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100574)*; 12 MONTHS $24,930

UNIVERSITY OF CALIFORNIA, SAN DIEGO

GROBSTEIN, CLIFFORD; *AN ASSESSMENT OF THE IMPACTS OF NEWER GENETIC AND DEVELOPMENTAL KNOWLEDGE (PRA-8020679*)*; 36 MONTHS $60,000

LEVIN, JAMES A; *DEVELOPMENT OF ESTIMATION SKILLS IN MATHEMATICS USING COMPUTER GAMES (SED-8112645)*; 12 MONTHS $95,314

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

MARCUS, MARVIN; *INTENSIVE COMPUTER-BASED MATHEMATICS TRAINING FOR RE-ENTRY WOMEN (SED-8020411)*; 26 MONTHS $192,012

WEISSGLASS, JULIAN; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101381)*; 12 MONTHS $29,543

LIPSHUTZ, BRUCE H; *UV-IR INSTRUMENTATION FOR ORGANIC CHEMISTRY LABORATORIES/ UNDERGRADUATE HONORS PROGRAM (SER-8162211)*; 24 MONTHS $10,000

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

LANDESMAN, EDWARD M; *MICROCOMPUTER AND VIDEO-BASED MATHEMATICS MODULES FOR HIGH SCHOOL WOMEN AND MINORITY STUDENTS (SED-8024701)*; 18 MONTHS $176,444

CREWS, PHILLIP O; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026296)*; 12 MONTHS $21,990

MASSARO, DOMINIC W; *INSTRUCTIONAL LABORATORY IN EXPERIMENTAL PSYCHOLOGY (SER-8160867)*; 30 MONTHS $29,641

UNIVERSITY OF SAN DIEGO

KOOP, JANICE B; *DEVELOPMENTAL MATHEMATICS CENTER IMPROVEMENT PROJECT (SER-8103152)*; 24 MONTHS $25,000

UNIVERSITY OF SANTA CLARA

DE BOUVERE, KAREL L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025433)*; 12 MONTHS $15,400

UNIVERSITY OF SOUTHERN CALIFORNIA

TSOTSIS, THEODORE T; *AN INTEGRATED UNDERGRADUATE CHEMICAL ENGINEERING LABORATORY (SER-8163094)*; 24 MONTHS $20,000

GIRANDOLA, ROBERT N; *IMPROVEMENT OF UNDERGRADUATE INSTRUCTION IN EXERCISE PHYSIOLOGY (SER-8163330)*; 24 MONTHS $12,853

WOODWARD-CLYDE CONSULTANTS INC

KEENEY, RALPH L; *RISK EVALUATION AND POLICY (PRA-8107319*)*; 15 MONTHS $15,000

COLORADO

ACADEMY OF INDEPENDENT SCHOLARS

KLANK, BENNO; *STUDENT SCIENCE TRAINING (SPI-8025393)*; 10 MONTHS $58,953

BIOLOGICAL CURRICULUM STUDY COMPANY

MAYER, WILLIAM V; *A FILM FOR TELEVISION ON ADVANCES IN HUMAN GENETICS (OSS-8006392)*; 12 MONTHS $169,307

COLORADO COLLEGE

VEIRS, VAL R; *COMPUTER-MONITORED INTRODUCTORY PHYSICS EXPERIMENTS (SER-8162819)*; 24 MONTHS $12,450

COLORADO MOUNTAIN COLLEGE

PULEO, LARRY E; *CAUSE: SCIENCE AND TECHNOLOGY INSTRUCTION FOR ENERGY IMPACTED WESTERN RURAL COLORADO (SER-8103818)*; 36 MONTHS $249,571

COLORADO SCHOOL OF MINES

BURNETT, JERROLD J; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101313)*; 12 MONTHS $30,514

BURNETT, JERROLD J; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101402)*; 18 MONTHS $45,501

UPDEGRAFF, DAVID M; *EQUIPMENT TO ESTABLISH LABORATORY COURSES IN GENERAL BIOLOGY, ECOLOGY, ENVIRONMENTAL MICROBIOLOGY AND INTRODUCTORY BIOCHEMISTRY (SER-8162946)*; 24 MONTHS $19,745

COLORADO STATE UNIVERSITY

CROSS, HENRY A; *IPA MOBILITY ASSIGNMENT (HENRY A. CROSS) (SER-8021656 A01)*; 2 MONTHS $7,665

ACKERMAN, ALAN, AND BURKHALTER, BARTON R; *ETHICAL DILEMMAS ASSOCIATED WITH SCIENTIFIC WORK IN AMERICAN INDIAN COMMUNITIES (ISP-8023665)*; 12 MONTHS $92,696

BRUMLEY, WILSON E; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024430)*; 10 MONTHS $30,710

VAUGHAN, JOHN D; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026637)*; 12 MONTHS $21,562

HENDRIX, JOHN E; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101259)*; 12 MONTHS $31,447

HILL, GEORGE C; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106867)*; 17 MONTHS $15,000

E S R ASSOCIATES INC

LANTZ, ALMA E; *THE SYNTHESIS OF EVIDENCE AND THEORETICAL EXPLANATIONS OF THE UNDERREPRESENTATION OF WOMEN IN SCIENCE (SED-8020854)*; 12 MONTHS $79,403

FORT LEWIS COLLEGE

LIKES, ROBERT N; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100915)*; 12 MONTHS $35,926

BOWMAN, FRANK O; *THE ADDITION OF FIELD GEOPHYSICS TO THE GEOLOGY CURRICULUM (SER-8163332)*; 24 MONTHS $12,364

INDIVIDUAL AWARD

SCHNUR, PAUL; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165032)*; 42 MONTHS $7,534

HSU, DAVID K; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165038)*; 42 MONTHS $17,954

LORETTO HEIGHTS COLLEGE

SPERO, MARLENE; *SCIENCE AND MATHEMATICS FOR PROSPECTIVE ELEMENTARY AND SPECIAL EDUCATION TEACHERS (SER-8160965)*; 30 MONTHS $27,992

SOCIAL SCIENCE EDUCATION CONSORTIUM INC

DAVIS, JAMES E; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101430)*; 12 MONTHS $28,734

DAVIS, JAMES E; *UTILIZATION OF RESEARCH SYNTHESES IN SOCIAL STUDIES/SOCIAL SCIENCE EDUCATION (SER-8160310)*; 15 MONTHS $29,979

UNIVERSITY OF COLORADO AT BOULDER

FENG, CHUAN C; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024743)*; 10 MONTHS $26,400

HORII, YOSHIYUKI; *AN UNDERGRADUATE SPEECH AND HEARING SCIENCE LABORATORY (SER-8162485)*; 24 MONTHS $20,000

CLOHESSY, WILLIAM H; *MATERIALS SCIENCE LABORATORY IMPROVEMENT (SER-8162650)*; 24 MONTHS $10,000

UNIVERSITY OF COLORADO AT COLORADO SPRINGS

LARKIN, ROBERT P; *SCIENCE, SOCIETY, AND THE SENIOR CITIZEN: A MODEL EDUCATIONAL PROGRAM (SED-7919031 A02)*; 12 MONTHS $53,758

UNIVERSITY OF COLORADO AT DENVER

HARTVIGSON, ZENAS R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101288)*; 12 MONTHS $23,266

UNIVERSITY OF DENVER

DORN, WILLIAM S; *A COLLEGE-LEVEL INTRODUCTION TO COMPUTING PRINCIPLES THROUGH TEXT PROCESSING (SED-8025788)*; 24 MONTHS $95,538

HORNBACK, JOSEPH M; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026217)*; 12 MONTHS $17,600

HUGHES, BARRY B; *A WORLD MODEL FOR CLASSROOM USE (SED-8102303*)*; 12 MONTHS $85,598

RECHARD, OTTIS W; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8160136)*; 24 MONTHS $99,983

AMME, ROBERT C; *COORDINATED LABORATORY IN INTRODUCTORY MODERN PHYSICS (SER-8160927)*; 30 MONTHS $22,025

CONNECTICUT

AREA COOPERATIVE EDUCATION SERVICES

SCHAEFER, LARRY; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024994)*; 10 MONTHS $26,590

INDIVIDUAL AWARD

KLEI, HERBERT E; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165052)*; 42 MONTHS $28,800

HABERLANDT, KARL F; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165076)*; 42 MONTHS $22,612

MYSTIC SEAPORT MUSEUM

WILTSE, WENDY I; *EQUIPMENT TO UPGRADE MARINE SCIENCE TEACHING LABORATORY (SER-8162663)*; 24 MONTHS $7,634

NORWALK COMMUNITY COLLEGE

STEWART, MARTIN D; *DEVELOPMENT OF A MATHEMATICS PROGRAM (SER-8161074)*; 30 MONTHS $7,213

SOUTHERN CONNECTICUT STATE COLLEGE

SNYDER, JOHN W; *INDEPENDENT WALK-IN LABORATORY IN PHYSICS (SER-8160791)*; 30 MONTHS $25,618

UNIVERSITY OF HARTFORD

JORGENSEN, BRUCE W; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101284)*; 12 MONTHS $23,642

MATHEWS, JAMES B; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101286)*; 18 MONTHS $36,628

WORKMAN, HARRY J; *CAUSE - THE IMPROVEMENT OF THE COMPUTER COMPETENCY LEVEL OF ARTS AND SCIENCES, BASIC STUDIES AND ENGINEERING STUDENTS (SER-8103843)*; 36 MONTHS $249,822

UNIVERSITY OF NEW HAVEN

GRODZINSKY, STEPHEN; *MICROELECTRONIC DEVICE FABRICATION LABORATORY (SER-8162811)*; 24 MONTHS $17,170

WESLEYAN UNIVERSITY

PETERSSON, GEORGE A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026224)*; 12 MONTHS $18,937

YALE UNIVERSITY

PRICE, DEREK DE; *U. S. STUDENT PUGWASH CONFERENCE ON MORAL DILEMMAS OF TECHNOLOGY AND DEMOCRACY ' (29P-8017907)*; 24 MONTHS $60,830

HENRICH, VICTOR E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025656)*; 12 MONTHS $21,836

SOLOWAY, ELLIOT M; *MISCONCEPTIONS OF NOVICE COMPUTER PROGRAMMERS (SED-8112403)*; 24 MONTHS $174,202

BENNETT, WILLIAM R; *EXPANSION OF DEPARTMENTAL COMPUTER FOR UNDERGRADUATE TEACHING (SER-8162735)*; 24 MONTHS $20,000

SMITH, RONALD B; *SATELLITE IMAGES AND WEATHER MAPS FOR TEACHING METEOROLOGY AND OCEANOGRAPHY (SER-8163103)*; 24 MONTHS $11,391

DELAWARE

INDIVIDUAL AWARD

HAWLEY, MICHAEL J; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165034)*; 42 MONTHS $16,735

UNIVERSITY OF DELAWARE

BROOKS, MORRIS W; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024979)*; 10 MONTHS $13,416

COOPER, CHARLES B; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025439)*; 12 MONTHS $8,549

SLOYER, CLIFFORD W; *A MODULAR COMPUTER-BASED APPROACH TO IMPROVING HIGH SCHOOL MATHEMATICS INSTRUCTION (SED-8025787)*; 20 MONTHS $204,865

HOFSTETTER, FRED T; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101341)*; 12 MONTHS $49,967

WENGER, RONALD H; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101346)*; 18 MONTHS $24,813

WENGER, RONALD H; *CAUSE - A COMPREHENSIVE PLAN TO IMPROVE UNDERSTANDING AND USES OF THE MATHEMATICAL SCIENCES BY STUDENTS IN THE STATE OF DELAWARE USING CONTEMPORARY RES ON LEARNING & EDUC TECH (SER-8103901)*; 36 MONTHS $248,987

HOFSTETTER, FRED T; *INFORMATION DISSEMINATION INSTITUTE ON MICROCOMPUTERS FOR THE IMPROVEMENT OF INSTRUCTION IN MATHEMATICS AND SCIENCE (SER-8160376)*; 12 MONTHS $15,120

DISTRICT OF COLUMBIA

AMERICAN ASSOCIATION FOR ADVANCEMENT SCIENCE

RATCHFORD, J THOMAS; *MASS MEDIA SCIENCE FELLOWS PROGRAM (OSS-8017413)*; 12 MONTHS $69,659

RATCHFORD, J THOMAS; *MASS MEDIA SCIENCE FELLOWS PROGRAM (OSS-8017413 A01)*; 12 MONTHS $77,127

DASBACH, JOSEPH M; *NSF CHAUTAUQUA-TYPE SHORT COURSES FOR COLLEGE TEACHERS (SPI-8020958 A02)*; 12 MONTHS $24,806

AMERICAN CHEMICAL SOCIETY (ACS)

LIPPINCOTT, WILLIAM T; *CHEMISTRY IN THE COMMUNITY: A PROBLEM-FOCUSED COURSE FOR HIGH SCHOOLS (SED-8115424)*; 36 MONTHS $193,201

AMERICAN COUNCIL ON EDUCATION

STAUFFER, THOMAS M; *EVALUATION SERVICES FOR FY 1981 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-7725364 A06)*; 12 MONTHS $46,327

AMERICAN UNIVERSITY

KAY, RICHARD B; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101296)*; 12 MONTHS $37,037

ASSOCIATION OF SCIENCE-TECHNOLOGY CENTERS

GRINELL, SHEILA; *SUPPORTING ACTIVITIES FOR SCIENCE-TECHNOLOGY CENTERS (OSS-7706038 A06)*; 12 MONTHS $59,924

CAPITAL CHILDREN'S MUSEUM

PAPERT, SEYMOUR; *STUDENT DIRECTED COMPUTER PROJECT (SER-8160373)*; 15 MONTHS $29,935

CATHOLIC UNIVERSITY OF AMERICA

YOUM, YOUNGIL; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026362)*; 12 MONTHS $6,600

BLOCK, CIELLE; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101365)*; 18 MONTHS $42,440

CONFERENCE BOARD OF THE MATHEMATICAL SCIENCES

BOTTS, TRUMAN A; *SURVEY OF UNDERGRADUATE EDUCATION IN THE MATHEMATICAL SCIENCES 1980-81 (SED-7919946 A01)*; $7,000

GEORGE WASHINGTON UNIVERSITY

BROOKS, ALISON S; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101343)*; 18 MONTHS $44,623

CARROLL, ROBERT L; *DIGITAL COMPUTER CONTROL LAB (SER-8163047)*; 24 MONTHS $17,885

GEORGETOWN UNIVERSITY

ROSIER, RONALD C; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8025541)*; 10 MONTHS $24,480

HOWARD UNIVERSITY

LITTLETON, GEORGE K; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-7910150 A02)*; $4,800

LITTLETON, GEORGE K; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010733 A01)*; $7,680

PETERSEN, RAYMOND L; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8025720)*; 20 MONTHS $26,214

SCHWARTZMAN, DAVID W; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026273)*; 12 MONTHS $4,499

LITTLETON, GEORGE K; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8160013)*; 42 MONTHS $47,400

INDIVIDUAL AWARD

WELCH, JOHN N; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165083)*; 42 MONTHS $27,500

MATHEMATICAL ASSOCIATION OF AMERICA

JOBE, JOHN; *MATHEMATICS IN SOCIETY: MULTIMEDIA MATERIALS FOR 8TH - 10TH GRADE STUDENTS (SED-8008438 A01)*; $10,900

NATIONAL ACADEMY OF SCIENCES

KELLY, WILLIAM C; *SCIENCE AND ENGINEERING EDUCATION FOR LONG TERM NATIONAL NEEDS (SER-8015304 A01*)*; 4 MONTHS $54,680

NATIONAL PUBLIC RADIO

COHEN, BARBARA; *SCIENCE INFORMATION ON PUBLIC RADIO (OSS-8006355 A02)*; 12 MONTHS $199,790

NATIONAL SCIENCE TEACHERS ASSOCIATION

MARCUCCIO, PHYLLIS; *A NATIONAL SCIENCE TEACHERS ASSOCIATION-BUSINESS-INDUSTRY CONFERENCE TO DEVELOPE GUIDELINES FOR COOPERATIVE PROGRAMS IN SCIENCE EDUCATION (SPI-8001838*)*; 18 MONTHS $50,048

DE WALL, MARILY; *A RESOURCE DISSEMINATION BULLETIN FOR MIDDLE SCHOOL AND JUNIOR HIGH SCIENCE TEACHERS (SER-8020566)*; 12 MONTHS $44,495

MECHLING, KENNETH R; *PROMOTING SCIENCE AMONG ELEMENTARY SCHOOL PRINCIPALS (SER-8160347)*; 24 MONTHS $29,550

NATIONAL WILDLIFE FEDERATION

BISHOP, E G; *SPANISH TRANSLATION AND FEASIBILITY STUDY OF RANGER RICK'S NATURE MAGAZINE (SED-8019334)*; 10 MONTHS $78,538

SCIENTIFIC MANPOWER COMMISSION

VETTER, BETTY M; *REVISING AND UPDATING MATERIALS FOR AN AUDIO-VISUAL PRESENTATION ON CAREER OPPORTUNITIES IN SCIENCE AND ENGINEERING (SPI-8160172)*; 13 MONTHS $40,833

SMITHSONIAN INSTITUTION

WHITE, JUDITH; *SCIENCE EDUCATION FOR FAMILIES IN INFORMAL LEARNING SETTINGS (SED-8020621)*; 36 MONTHS $223,735

UNIVERSITY OF DC-MOUNT VERNON SQUARE CAMPUS

DIXON, FREDDIE M; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026624)*; 12 MONTHS $13,163

FLORIDA

BARRY COLLEGE

FREI, J KAREN; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8107231)*; 22 MONTHS $18,848

BETHUNE-COOKMAN COLLEGE

LAWSON, VERNA R; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8107051)*; 17 MONTHS $14,460

FLORIDA AGRICULTURAL AND MECHANICAL UNIVERSITY

WALKER, CHARLES A; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010731 A01)*; 27 MONTHS $2,880

WALKER, CHARLES A; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8160009)*; 42 MONTHS $47,400

FLORIDA INSTITUTE OF TECHNOLOGY

FRONK, ROBERT H; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100999)*; 12 MONTHS $24,915

FLORIDA STATE UNIVERSITY

BARNES, LEHMAN W; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8025119)*; 10 MONTHS $21,173

MELLON, EDWARD K; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025705)*; 12 MONTHS $21,990

ALLEN, RODNEY F; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101036)*; 12 MONTHS $17,701

INDIVIDUAL AWARD

HUDSON, GAYNOR M; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165083)*; 42 MONTHS $19,967

BENEFIELD, JACK WAYN; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165137)*; 42 MONTHS $29,389

JACKSONVILLE UNIVERSITY

ROBERTSON, JESSE S; *PRE-COLLEGE TEACHER DEVELOPMENT (SPI-8001290 A01)*; 4 MONTHS $4,633

WHITE, A Q; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100898)*; 12 MONTHS $36,558

ROBERTSON, JESSE S; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101279)*; 18 MONTHS $31,947

UNIVERSITY OF CENTRAL FLORIDA

BRENNAN, JACK; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101315)*; 18 MONTHS $21,795

GUHA, RATAN K; *TOTAL MICROPROCESSOR SYSTEM DESIGN AND DEVELOPMENT (SER-8160771)*; 30 MONTHS $29,986

SWEET, HAVEN C; *DEVELOPMENT AND IMPLEMENTATION OF LABORATORY EXERCISES IN BIOLOGY FOR NON-MAJORS (SER-8160942)*; 30 MONTHS $24,963

UNIVERSITY OF FLORIDA

KANTOWSKI, MARY G; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024381)*; 10 MONTHS $13,082

BECHT, PAUL A; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101238)*; 12 MONTHS $28,511

HALE, MARK P; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101462)*; 12 MONTHS $41,383

FROMING, WILLIAM J; *DEVELOPMENT OF LABORATORY FOR PSYCHOLOGICAL TESTING (SER-8160816)*; 30 MONTHS $30,000

BENEDICT, BARRY A; *IMPROVEMENT OF UNDERGRADUATE HYDRAULICS LABORATORY (SER-8162235)*; 24 MONTHS $19,890

FAGUNDO, FERNANDO E; *STRUCTURAL MODELS LABORATORY FOR CIVIL ENGINEERING (SER-8162324)*; 24 MONTHS $19,218

COUCH, LEON W; *COMPUTER COMMUNICATIONS LABORATORY (SER-8162325)*; 24 MONTHS $17,500

UNIVERSITY OF NORTH FLORIDA

CHUA, YAP S; *COMPUTER HARDWARE LABORATORY (SER-8163225)*; 24 MONTHS $7,975

UNIVERSITY OF SOUTH FLORIDA

KIMBLER, DELBERT L; *INDUSTRIAL AUTOMATION AND CONTROL LABORATORY (SER-8163084)*; 24 MONTHS $14,000

DAVIS, JEFFERSON C; *COMPUTER-ASSISTED INSTRUCTION FACILITY IN CHEMISTRY (SER-8163095)*; 24 MONTHS $20,000

GEORGIA

ALBANY STATE COLLEGE

DAVIS, JOSEPHINE D; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101475)*; 12 MONTHS $38,239

ATLANTA JUNIOR COLLEGE

MORGAN, BARBARA S; *IMPROVEMENT OF AN INTRODUCTORY BIOLOGY COURSE THROUGH MINICOURSE DEVELOPMENT (SER-8160636)*; 30 MONTHS $29,746

ATLANTA UNIVERSITY

HUDSON, BENJAMIN F; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-7910147 A02)*; 15 MONTHS $2,400

HUDSON, BENJAMIN F; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010746 A01)*; $7,680

WEBB, MELVIN R; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8025076)*; 10 MONTHS $33,624

WALTON, HARRIETT J; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101310)*; 12 MONTHS $19,413

WEBB, MELVIN R; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106861)*; 17 MONTHS $46,400

HUDSON, BENJAMIN F; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8160000)*; 42 MONTHS $165,900

CLARK COLLEGE

FINKELSTEIN, ISABELLA N; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024961)*; 10 MONTHS $22,345

WEBB, MELVIN R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8105160)*; 18 MONTHS $26,949

EMORY UNIVERSITY

NEFF, MARY F; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8025132)*; 10 MONTHS $9,823

HAHN, CAROLE L; *ALTERNATIVE APPROACHES TO MIDDLE GRADES SCIENCE, MATHEMATICS AND SOCIAL SCIENCE (SER-8160353)*; 18 MONTHS $29,999

HANDELBERG, KENNETH I; *UNDERGRADUATE MICROCOMPUTER LABORATORY (SER-8162972)*; 24 MONTHS $20,000

EMORY UNIVERSITY-OXFORD COLLEGE OF EMORY UNIVERSITY

MCKIBBEN, WILLIAM P; *LABORATORY, CLASSROOM, AND COMMUNICATION EQUIPMENT FOR COMPUTER-AIDED INSTRUCTION IN UNDERGRADUATE NATURAL SCIENCE AND MATHEMATICS (SER-8162284)*; 24 MONTHS $12,762

GEORGIA INSTITUTE OF TECHNOLGY MAIN CAMPUS

LUNDBERG, JOHN L; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8025151)*; 10 MONTHS $40,267

MYERSON, ALLAN S; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025436)*; 12 MONTHS $22,000

BAREFIELD, E KENT; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026225)*; 12 MONTHS $21,901

LUNDBERG, JOHN L; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8107637)*; 17 MONTHS $50,000

WATTS, VIRGINIA S; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8160149)*; 18 MONTHS $20,000

HAMMOND, JOSEPH L; *DEVELOPMENT OF AN UNDERGRADUATE COURSE ON DESIGN AND PERFORMANCE ANALYSIS OF LOCAL COMPUTER NETWORKS (SER-8160975)*; 30 MONTHS $22,445

POSTON, JOHN W; *RADIATION DOSIMETRY EQUIPMENT FOR HEALTH PHYSICS EDUCATION (SER-8162209)*; 24 MONTHS $20,000

UYEMURA, JOHN P; *LIGHTWAVE COMMUNICATIONS LABORATORY EXPANSION (SER-8162471)*; 24 MONTHS $11,236

GEORGIA SOUTHERN COLLEGE

OLEWINE, DONALD A; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024591)*; 10 MONTHS $26,465

BISHOP, T PARKER; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101348)*; 18 MONTHS $39,514

GEORGIA STATE UNIVERSITY

SEARS, CURTIS T; *CAUSE - COMPUTER AIDED INSTRUCTION AND TUTORIALS IN CHEMISTRY (SER-8103942)*; 36 MONTHS $206,553

INDIVIDUAL AWARD

MORGAN, BARBARA S; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165092)*; 42 MONTHS $26,616

LOCKHEED-GEORGIA COMPANY

BAILEY, C D; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160213)*; 18 MONTHS $30,000

MEDICAL COLLEGE OF GEORGIA

LANCLOS, KENNETH D; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026627)*; 12 MONTHS $22,000

SOUTHERN TECHNICAL INSTITUTE

SPARKS, BEN C; *PROCESS CONTROLS DEMONSTRATION (SER-8162846)*; 24 MONTHS $3,637

UNIVERSITY OF GEORGIA

ZEITLER, WILLIAM R; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8005644 A02)*; 12 MONTHS $7,142

ZEITLER, WILLIAM R; *SUPPORT CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSE PROGRAM RFP80-113 (SPI-8017361 A02)*; 12 MONTHS $132,150

SHAW, J SCOTT; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024198)*; 10 MONTHS $27,708

CADWALLADER, DONALD E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025453)*; 12 MONTHS $15,255

HEPBURN, LAWRENCE R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100893)*; 12 MONTHS $27,827

WILLIAMS, ELMER D; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101228)*; 12 MONTHS $33,995

RICKER, KENNETH S; *CONSTRUCTION AND VALIDATION OF TACTILE DIAGRAMS FOR TEACHING BIOLOGY TO VISUALLY HANDICAPPED STUDENTS (SPI-8104903)*; 16 MONTHS $49,940

COONEY, THOMAS J; *CONCEPTUAL SYSTEMS AND DECISION MAKING IN TEACHING MATHEMATICS (SED-8112635)*; 24 MONTHS $150,663

WELCH, ROY A; *IMPROVEMENTS IN THE UNDERGRADUATE REMOTE SENSING AND CARTOGRAPHY CURRICULUM AT THE UNIVERSITY GEORGIA (SER-8162165)*; 24 MONTHS $19,597

HAWAII

UNIVERSITY OF HAWAII AT HILO

HWANG, SUK R; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024371)*; 10 MONTHS $28,648

UNIVERSITY OF HAWAII-MANOA

KAY, E ALISON; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025941)*; 12 MONTHS $17,890

CARR, ALBERT B; *PACIFIC AREA ELEMENTARY SCIENCE EDUCATION DISSEMINATION CONFERENCE (SER-8160341)*; 18 MONTHS $29,573

IDAHO

BOISE STATE UNIVERSITY

NEWBY, GARY R; *DEVELOPMENT OF A TRANSDUCER LABORATORY (SER-8162469)*; 24 MONTHS $16,241

COLLEGE OF IDAHO

HENRY, BOYD; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100558)*; 18 MONTHS $22,880

MCGLINSKY, ALFRED M; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101476)*; 12 MONTHS $13,220

IDAHO STATE UNIVERSITY

KRATZ, LAWRENCE J; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024592)*; 10 MONTHS $22,208

MCCUNE, RONALD W; *DEVELOPMENT OF VISUAL AND COMPUTER-BASED MEDIA FOR A BIOCHEMISTRY LECTURE COURSE (SER-8160763)*; 30 MONTHS $29,540

UNIVERSITY OF IDAHO

WILLIAMS, GEORGE A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026606)*; 12 MONTHS $21,674

WAI, CHIEN M; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026609)*; 12 MONTHS $6,599

GREGORY, ROBERT J; *MINI-COMPUTER LABORATORY IN EXPERIMENTAL PSYCHOLOGY (SER-8161015)*; 30 MONTHS $17,887

PETERSON, JAMES N; *DIGITAL CONTROL EQUIPMENT FOR ENGINEERING EDUCATION (SER-8162498)*; 24 MONTHS $17,582

ILLINOIS

ARGONNE NATIONAL LABORATORY

RAUCKHORST, WILLIAM H; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160216)*; 18 MONTHS $35,000

AURORA COLLEGE

EASLEY, HOMER E; *ESTABLISHING A COMPUTER GRAPHICS LABORATORY (SER-8162618)*; 24 MONTHS $16,490

BRADLEY UNIVERSITY

MEHTA, D PAUL; *IMPLEMENTATION OF UNDERGRADUATE DIGITAL MEASUREMENTS AND CONTROL SYSTEMS LABORATORY (SER-8162453)*; 24 MONTHS $19,465

CHICAGO PARK DISTRICT-LINCOLN PARK ZOOLOGICAL GARDENS

KOLAR, JUDITH R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101271)*; 12 MONTHS $12,478

CHICAGO STATE UNIVERSITY

FOODEN, JACK; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-7910152 A02)*; $2,400

CHOOS, RAMONA G; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101414)*; 12 MONTHS $46,651

CITY COLLEGES OF CHICAGO

TRINH, DZOANH N; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024940)*; 10 MONTHS $38,160

EASTERN ILLINOIS UNIVERSITY

BUCHANAN, DAVID H; *CURRICULUM IMPROVEMENT IN CHEMICAL SEPARATION AND ANALYSIS (SER-8162440)*; 24 MONTHS $9,195

FIELD MUSEUM OF NATURAL HISTORY

SMITH, HARRIET M; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024957)*; 10 MONTHS $15,380

GOULD INC-GOULD INC GOULD LABORATORIES-ILLINOIS

BENNETT, ALAN J; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160206)*; 18 MONTHS $30,000

ILLINOIS BENEDICTINE COLLEGE

CARNEY, ROSE A; *CAUSE - INSTRUCTIONAL APPLICATIONS OF COMPUTERS IN EDUCATION IN THE SCIENCE DIVISION (SER-8103778)*; 36 MONTHS $248,474

ILLINOIS INSTITUTE OF TECHNOLOGY

SCHUG, KENNETH; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026154)*; 12 MONTHS $17,333

WEIL, VIVIAN; *SECOND NATIONAL CONFERENCE ON ENGINEERING ETHICS (ISP-8026510)*; 12 MONTHS $38,735

WOJCIK, ANTHONY S; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101396)*; 18 MONTHS $31,451

SCHUG, KENNETH, AND COTTON, THERESE M; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8160117)*; 36 MONTHS $98,668

ILLINOIS STATE UNIVERSITY

TUBB, GARY W; *FEMALES ACQUISITION OF 8TH GRADE GEOMETRY CONCEPTS VIA NON-VERBAL MICROCOMPUTER GRAPHICS (SED-8024507)*; 24 MONTHS $55,500

COLLIER, GLEN E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026642)*; 12 MONTHS $21,998

FITCH, THOMAS C; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100565)*; 18 MONTHS $47,090

FITCH, THOMAS C; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101248)*; 12 MONTHS $37,671

BAZIK, EDNA F; *DISSEMINATION OF PROJECT CHILD: CHANNELING HELPFUL IDEAS FOR LEARNING DIFFICULTIES (SER-8160330)*; 12 MONTHS $29,208

INDIVIDUAL AWARD

LARSON, ANN M; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165144)*; 42 MONTHS $28,895

KNOX COLLEGE

FACTOR, R L; *VALUE PRESUPPOSITIONS IN SCIENTIFIC TEXTBOOKS: AN ANNOTATED BIBLIOGRAPHY (ISP-7917915 A03)*; 3 MONTHS $1,000

SCHRAMM, PETER; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026352)*; 12 MONTHS $8,800

LEWIS UNIVERSITY

REICH, MICHAEL J; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100860)*; 12 MONTHS $11,830

MILLIKIN UNIVERSITY

GROMOLL, HENRY F; *LABORATORY DEVELOPMENT IN EXPERIMENTAL PSYCHOLOGY (SER-8162005)*; 24 MONTHS $4,905

MUSEUM OF SCIENCE AND INDUSTRY

UCKO, DAVID A; *DEMYSTIFYING SCIENCE--A MUSEUM EXHIBIT (OSS-8023506)*; 15 MONTHS $190,371

NORTHEASTERN ILLINOIS UNIVERSITY

KAMAU-BOTSCHARO, LUCY J; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026187)*; 12 MONTHS $6,599

MCARDLE, EUGENE W; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101168)*; 12 MONTHS $27,554

NORTHERN ILLINOIS UNIVERSITY

MILLER, JON D; *A CRITICAL EXAMINATION OF FACTORS ASSOCIATED WITH PUBLIC ATTENTIVENESS TO SCIENCE (SED-8018947)*; 18 MONTHS $122,393

DOBSON, L DOUGLAS; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026394)*; 12 MONTHS $20,233

VOELKER, ALAN M; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101437)*; 18 MONTHS $41,634

SOWDER, LARRY, AND THREADGILL, JUDITH; *FORMAT VARIABLES AND LEARNER CHARACTERISTICS IN MATHEMATICAL PROBLEM SOLVING (SED-8108134)*; 26 MONTHS $196,121

BEHR, MERLYN J; *CONSTRUCT ANALYSIS, MANIPULATIVE AIDS, REPRESENTATIONAL SYSTEMS, AND THE LEARNING OF RATIONAL NUMBERS (SED-8112643)*; 36 MONTHS $150,000

FRANKS, JOHN R; *INSTRUMENTATION FOR SPEECH AND HEARING SCIENCE INSTRUCTION (SER-8163042)*; 24 MONTHS $18,905

NORTHWESTERN UNIVERSITY

HALLETT, STANLEY J; *APPROPRIATE TECHNOLOGY FOR OLDER URBAN NEIGHBORHOODS (ISP-8104603*)*; 12 MONTHS $26,300

JANDA, KENNETH; *A COMPUTER LABORATORY FOR UNDERGRADUATE STUDY IN POLITICAL SCIENCE (SER-8162556)*; 24 MONTHS $12,450

BUCHHOLZ, DAVID A; *MICROPROCESSOR APPLICATIONS TO PHYSICS (SER-8162686)*; 24 MONTHS $17,720

OLIVET NAZARENE COLLEGE

WRIGHT, ROBERT W; *BIOLOGY PROGRAM DEVELOPMENT BY THE ACQUISITION OF PHYSIOLOGICAL INSTRUMENTATION (SER-8162782)*; 24 MONTHS $12,489

PARKLAND COLLEGE

SCHOEN, DELORES C; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8005655 A02)*; 12 MONTHS $4,384

OGREN, CAROLYN S; *LABORATORY ACTIVITIES FOR GENERAL BIOLOGY FOR NON-MAJORS (SER-8160766)*; 30 MONTHS $18,043

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE

PARKER, GEORGE; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100853)*; 12 MONTHS $15,623

SHECHMEISTER, ISAAC L; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101060)*; 18 MONTHS $26,000

PETERSON, BRUCE, AND SULLIVAN, MARY J; *FIELD APPLICATION OF ECOLOGICAL PRINCIPLES FOR PHYSICALLY HANDICAPPED HIGH SCHOOL STUDENTS (SPI-8104911)*; 12 MONTHS $49,990

RUBBA, PETER A; *DEVELOPMENT OF REASONING WORKSHOPS FOR ILLINOIS COLLEGE SCIENCE INSTRUCTORS (SER-8160337)*; 15 MONTHS $22,286

PHILLIPS, JOHN B; *IMPROVED INSTRUCTION IN CHEMICAL INSTRUMENTATION (SER-8160674)*; 30 MONTHS $16,275

TRITON COLLEGE

BRILLHART, LILA V; *STUDY GUIDE AND TESTING MATERIALS IN A 'STRENGTH OF MATERIALS' COURSE (SER-8160691)*; 30 MONTHS $21,950

UNIVERSITY OF CHICAGO

WIRSZUP, IZAAK; *SURVEY OF RECENT EAST EUROPEAN MATHEMATICAL LITERATURE (SED-7680599 A02)*; 24 MONTHS $25,000

MEYER, WILLIAM H; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024991)*; 10 MONTHS $46,400

FRITZSCHE, HELLMUT; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026163)*; 12 MONTHS $18,443

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

SETTON, HENRY A; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024746)*; 20 MONTHS $18,036

UNIVERSITY OF ILLINOIS AT URBANA

ANNER, GEORGE; *EQUIPMENT FOR SEMICONDUCTOR INTEGRATED CIRCUITS FACILITY (SER-8163268)*; 24 MONTHS $20,000

ROBERTSON, JAMES M; *FLUID MECHANICS UNDERGRADUATE LABORATORY EQUIPMENT (SER-8163269)*; 24 MONTHS $20,000

URBANA SCHOOL DISTRICT 116

LERCH, MARGIE A; *URBANA TEACHER CENTER INFORMATION DISSEMINATION PROJECT FOR ENVIRONMENTAL SCIENCE (SER-8160398)*; 24 MONTHS $29,617

WESTERN ILLINOIS UNIVERSITY

DOVE, LEWIS D; *THE DEVELOPMENT OF MICROCOMPUTER MODULES AS INSTRUCTIONAL AIDS IN BIOLOGY (SER-8160638)*; 30 MONTHS $28,212

INDIANA

BALL STATE UNIVERSITY

PERHAM, BERNADETTE H; *MICROCOMPUTER APPLICATIONS OF MATHEMATICS IN HIGH SCHOOL MANAGEMENT SCIENCE (SED-8024418)*; 18 MONTHS $79,482

MERTENS, THOMAS R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100564)*; 12 MONTHS $31,784

AULT, KEITH; *ROLES FOR THE PHYSICALLY HANDICAPPED IN SCIENCE: LEADERSHIP AND IN-SERVICE WORKSHOPS FOR COLLEGE FACULTY & STAFF (SPI-8104907)*; 12 MONTHS $49,840

WATSON, JAMES; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (291-8111766)*; 18 MONTHS $8,434

WATSON, JAMES; *A GENERAL EDUCATION COURSE IN SCIENCE BASED ON CURRENT SCIENTIFIC CONTROVERSIES (SER-8160851)*; 30 MONTHS $25,745

DEPAUW UNIVERSITY

GARRETT, B L; *USE OF COMPUTERS TO IMPROVE UNDERGRADUATE INSTRUCTION IN PSYCHOLOGY (SER-8162888)*; 24 MONTHS $10,775

EARLHAM COLLEGE

MARTIN, CHARLES W; *PREPARATION OF VIDEOTAPES OF OPTICAL PROPERTIES OF MINERAL AND POLLEN GRAINS FOR USE IN OPTICAL MINERALOGY AND PALYNOLOGY COURSES (SER-8160702)*; 30 MONTHS $4,249

OGREN, PAUL J; *INTERDISCIPLINARY UNITS ON MODERN THEORIES OF MATTER AND ON CRYSTALLINE SOLIDS (SER-8161089)*; 30 MONTHS $5,024

FRANKLIN COLLEGE OF INDIANA

RHODES, SAMUEL B; *LABORATORY EQUIPMENT TO IMPROVE PHYSIOLOGY COURSES (SER-8162580)*; 24 MONTHS $11,200

INDIANA STATE UNIVERSITY-EVANSVILLE CAMPUS

WEINZAPFEL, SYLVIA N; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8160153)*; 24 MONTHS $99,731

INDIANA UNIVERSITY, BLOOMINGTON

MEHLINGER, HOWARD D; *GLOBAL STUDIES IN GEOGRAPHY FOR THE MIDDLE GRADES (SED-7918988 A01)*; 12 MONTHS $191,356

CORY, WALTER A; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024761)*; 10 MONTHS $38,053

THOMPSON, MAYNARD; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026327)*; 12 MONTHS $21,488

RISINGER, C F; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101316)*; 12 MONTHS $26,383

OCHOA, ANNA; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101519)*; 12 MONTHS $43,431

GILLESPIE, JUDITH A; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101344)*; 18 MONTHS $42,449

REINGOLD, HAIM; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106367)*; 17 MONTHS $50,000

THOMPSON, MAYNARD; *INTEGRATION OF COMPUTING INTO SELECTED POST-CALCULUS MATHEMATICS COURSES (SER-8160931)*; 30 MONTHS $29,864

BECKER, WILLIAM E; *AN INTERACTIVE TEACHING SYSTEM FOR INTRODUCTORY ECONOMICS AND STATISTICS (SER-8160939)*; 30 MONTHS $30,000

MCDERMOTT, DANA P; *ORGANIC AND GENERAL CHEMISTRY LABORATORY PROGRAM IMPROVEMENT (SER-8162552)*; 24 MONTHS $7,850

THOMPSON, MAYNARD; *MATHEMATICS COMPUTING LABORATORY (SER-8162902)*; 24 MONTHS $20,000

CASTELLAN, N JOHN; *COMPUTER EQUIPMENT FOR TEACHING SCIENTIFIC PSYCHOLOGY (SER-8162958)*; 24 MONTHS $20,000

INDIANA UNIVERSITY, NORTHWEST

REINGOLD, HAIM; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024029)*; 20 MONTHS $40,109

REINGOLD, HAIM; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101393)*; 18 MONTHS $22,511

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS

KREMER, JOHN F; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026324)*; 12 MONTHS $17,180

BOAZ, PATRICIA A; *CAUSE - ACQUISITION AND UTILIZATION OF AUDIOVISUAL EQUIPMENT FOR A SCIENCE LEARNING CENTER (SER-8103950)*; 36 MONTHS $247,290

HARRIS, ROBERT B; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (291-8111767)*; 18 MONTHS $9,102

HERRMANN, SUSAN; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8160162)*; 30 MONTHS $99,220

RAJECKI, D W; *COMPUTER-BASED LABORATORY EXPERIENCE IN PSYCHOLOGY AT AN URBAN UNIVERSITY (SER-8161028)*; 30 MONTHS $24,984

INDIVIDUAL AWARD

DINNSEN, DANIEL A; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165061)*; 42 MONTHS $29,084

PURDUE UNIVERSITY

KAHLE, JANE B; *AN INVESTIGATION OF INSTRUCTIONAL STRATEGIES TO ENHANCE MEANINGFUL LEARNING IN BIOLOGY (SED-8019477)*; 18 MONTHS $75,366

SADOWSKI, RANDALL P; *ENGINEERING EDUCATION MATERIALS FOR COMPUTER - AIDED MANUFACTURING (SED-8020447 A02)*; 6 MONTHS $43,596

SNOW, JOHN T; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025451)*; 12 MONTHS $6,247

THEOFANOUS, THEOFANIS G; *AN EXPERIMENTAL FACILITY FOR TEACHING NUCLEAR ENGINEERS TO PREVENT AND COPE WITH NUCLEAR POWER REACTOR ACCIDENTS (SER-8163114)*; 24 MONTHS $20,000

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

HOOVER, KEITH E; *ADVANCED MICROCOMPUTER TECHNIQUES (SER-8160920)*; 30 MONTHS $20,458

ST FRANCIS COLLEGE

DUTCH, SUSAN E; *USE OF TACHISTOSCOPE FOR CLASSROOM DEMONSTRATIONS AND UNDERGRADUATE RESEARCH PROJECTS (SER-8161141)*; 30 MONTHS $16,052

ST MARY-OF-THE-WOODS COLLEGE

EYKE, WILLIAM; *INFRARED SPECTROPHOTOMETER FOR UNDERGRADUATE ORGANIC CHEMISTRY (SER-8162588)*; 24 MONTHS $3,340

ST MARY'S COLLEGE

MOULD, ERIC D; *IMPROVEMENT OF LABORATORY INSTRUCTION IN PHYSIOLOGY (SER-8162360)*; 24 MONTHS $19,082

JAMESON, PHYLLIS A; *IMPROVEMENT OF OBSERVATIONAL TECHNIQUES IN THE PSYCHOLOGY LABORATORY (SER-8162424)*; 24 MONTHS $1,568

TAYLOR UNIVERSITY

BURDEN, STANLEY L; *IMPROVING UNDERGRADUATE CHEMISTRY AND PHYSICS LABORATORY EXPERIMENTS BY THE USE OF ON-LINE MICROCOMPUTERS (SER-8160667)*; 30 MONTHS $17,011

UNIVERSITY OF NOTRE DAME

SCHWARTZ, MAURICE E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025677)*; 12 MONTHS $21,995

BENDER, HARVEY A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026137)*; 12 MONTHS $19,779

GREENE, RICHARD W; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101154)*; 12 MONTHS $23,649

NELSON, ROBERT C, AND SZEWCZYK, ALBIN A; *EQUIPMENT FOR AN ADVANCED EXPERIMENTAL MEASUREMENTS LABORATORY IN FLUID MECHANICS AND AERODYNAMICS (SER-8162148)*; 24 MONTHS $14,185

RAZZAQ, ZIA; *UNDERGRADUATE STRUCTURES LABORATORY EQUIPMENT (SER-8162479)*; 24 MONTHS $14,307

VALPARAISO UNIVERSITY

SCHOECH, WILLIAM J; *COMPUTER AIDED DESIGN/COMPUTER INTEGRATED MANUFACTURING SYSTEM (SER-8162001)*; 24 MONTHS $20,000

WABASH COLLEGE

BROOKS, AUSTIN E; *GRAPHIC BIOLOGY LABORATORY MODULES FOR THE BLIND (SED-8022031)*; 12 MONTHS $19,940

KROHNE, DAVID T; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025687)*; 12 MONTHS $8,799

IOWA

CLARKE COLLEGE

MALONE, DIANA; *SPECIAL PROJECT UNDER ISEP: MICROPROCESSOR-CONTROLLED INSTRUMENTATION IN THE CHEMISTRY CURRICULUM (SER-8162397)*; 24 MONTHS $11,365

CORNELL COLLEGE

DESKIN, WILLIAM A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025850)*; 12 MONTHS $10,984

DRAKE UNIVERSITY

ROBINSON, DAVID; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024736)*; 10 MONTHS $20,447

GRINNELL COLLEGE

ERICKSON, LUTHER E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025688)*; 12 MONTHS $11,100

UHLENHOPP, ELLIOTT L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026272)*; 12 MONTHS $6,600

ERICKSON, LUTHER E; *PURCHASE OF A GAS CHROMATOGRAPH-MASS SPECTROMETER (CHE-8111511*)*; 12 MONTHS $15,000

INDIVIDUAL AWARD

JOLLS, KENNETH R; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165016)*; 42 MONTHS $17,424

WUBBELS, GENE G; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165029)*; 42 MONTHS $19,560

SCHAEFER, JOSEPH A; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165141)*; 42 MONTHS $28,715

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

GLASS, LYNN W; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101144)*; 18 MONTHS $21,671

PATTERSON, FRANCIS C; *CAUSE - A PROJECT TO IMPROVE INSTRUCTION IN INTRODUCTORY PHYSICS COURSES (SER-8103887)*; 36 MONTHS $250,000

JOLLS, KENNETH R; *LABORATORY EXPERIMENTS IN CHEMICAL THERMODYNAMICS (SER-8160888)*; 30 MONTHS $29,912

HODGES, LAURENT; *SOLAR HOMES DESIGN: AN INTERDISCIPLINARY COURSE (SER-8160953)*; 30 MONTHS $23,915

GARCIA, PILAR A; *NEW TECHNIQUES FOR NUTRITIONAL STATUS ASSESSMENT LABORATORY (SER-8162287)*; 24 MONTHS $18,329

DOLPHIN, WARREN D; *SPECIAL PROJECT UNDER ISEP: REFURBISHING EQUIPMENT FOR AN UNDERGRADUATE CELL PHYSIOLOGY LABORATORY (SER-8162298)*; 24 MONTHS $11,338

LORAS COLLEGE

SCHAEFER, JOSEPH A; *THE REVISION AND IMPROVEMENT OF A COURSE IN ELECTRONICS (SER-8160627)*; 30 MONTHS $16,880

LUTHER COLLEGE

ECKBLAD, JAMES W; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8025143)*; 10 MONTHS $14,617

KNUTSON, ROGER M; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026430)*; 12 MONTHS $13,200

HEINO, WALDEN L; *IMPROVEMENTS IN LABORATORY SAFETY INSTRUCTION (SER-8160605)*; 30 MONTHS $7,489

SOUTHEASTERN COMMUNITY COLLEGE CENTRAL OFFICE-BURLINGTON CAMPUS

KNOPP, PATRICIA; *EQUIPMENT FOR LIFE SCIENCE LABORATORY (SER-8163314)*; 24 MONTHS $2,640

UNIVERSITY OF IOWA

YAGER, ROBERT E; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8005457 A02)*; 12 MONTHS $8,000

PIZZINI, EDWARD L; *SCIENCE CAREER WORKSHOP FOR MOBILITY-RESTRICTED HIGH SCHOOL STUDENTS (SPI-8104915)*; 24 MONTHS $42,640

HOYLE, CLASSIE G; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8160140)*; 22 MONTHS $19,986

SHELDON, DANIEL S; *SCIENCE TEACHING AND THE DEVELOPMENT OF REASONING (SER-8160386)*; 12 MONTHS $27,671

ALTON, DONALD A; *CASE STUDIES IN THE DESIGN AND ANALYSIS OF ALGORITHMS (SER-8161033)*; 30 MONTHS $28,440

WIEMER, DAVID F; *SPECTROSCOPIC AND GRAPHICS EQUIPMENT FOR INTERMEDIATE AND ADVANCED UNDERGRADUATE CHEMISTRY LABORATORIES (SER-8162248)*; 24 MONTHS $19,900

LENTH, RUSSELL V; *A COMPUTER-EQUIPPED CLASSROOM (SER-8162333)*; 24 MONTHS $7,993

UNIVERSITY OF NORTHERN IOWA

COONEY, TIMOTHY M; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100910)*; 12 MONTHS $24,981

STEFANICH, GREG; *IOWA MIDDLE GRADES SCIENCE INFORMATION DISSEMINATION PROJECT (SER-8160369)*; 24 MONTHS $27,087

WARTBURG COLLEGE

RIBICH, FRED D; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100958)*; 12 MONTHS $30,983

KANSAS

BENEDICTINE COLLEGE

BOWEN, DANIEL E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026275)*; 12 MONTHS $6,600

EMPORIA STATE UNIVERSITY

BACKHUS, DEWAYNE A; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100559)*; 12 MONTHS $23,155

INDIVIDUAL AWARD

ZOLLMAN, DEAN A; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165031)*; 42 MONTHS $21,934

MITCHELL, MIKEY L; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165118)*; 42 MONTHS $19,613

KANSAS STATE UNIVERSITY

HATHAWAY, CHARLES E; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024977)*; 10 MONTHS $14,744

FRETWELL, STEPHEN D; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026559)*; 12 MONTHS $21,541

SHAW, TERRY; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101327)*; 12 MONTHS $46,418

JAMES, ROBERT K; *LABORATORY SKILLS DEVELOPMENT PROJECT IN BIOLOGY (SER-8160772)*; 30 MONTHS $29,915

FUNG, DANIEL Y; *INDEPENDENT PROJECTS FOR APPLIED MICROBIOLOGY (SER-8160976)*; 30 MONTHS $27,877

DAYTON, ARTHUR D; *AN UNDERGRADUATE STATISTICAL LABORATORY FEATURING REAL-LIFE DATA (SER-8163036)*; 24 MONTHS $20,000

ZOLLMAN, DEAN A; *PHYSICS LABS WITH VIDEODISC SYSTEMS (SER-8163153)*; 24 MONTHS $19,729

KANSAS WESLEYAN

OWEN, LAWTON; *CAUSE - DEVELOPMENT OF AN ADVANCED TECHNOLOGY LEARNING SYSTEM INTEGRATING COMPUTERS AND VIDEOCASSETTE TECHNOLOGY (SER-8103806)*; 24 MONTHS $184,619

UNIVERSITY OF KANSAS MAIN CAMPUS

SMITH, WALTER S; *COMETS II - CAREER ORIENTED SCIENCE TOPICS FOR ELEMENTARY AND MIDDLE SCHOOLS (SED-7919006 A01)*; 24 MONTHS $30,000

NEWMARK, MARJORIE Z; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025699)*; 12 MONTHS $21,545

GRUNEWALD, GARY L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026418)*; 12 MONTHS $17,600

SCHOWEN, KATHARINE B; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026631)*; 12 MONTHS $19,769

SCHOWEN, KATHARINE B; *INSTRUCTIONAL IMPROVEMENT OF THE ORGANIC LABORATORY PROGRAM (SER-8163072)*; 24 MONTHS $14,120

SCHWEPPE, EARL J; *COMPUTER SYSTEMS LABORATORY (SER-8163622)*; 24 MONTHS $20,000

WICHITA STATE UNIVERSITY
BOWMAN, BARBARA; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8160145)*; 14 MONTHS $16,079
PETERS, RALPH I; *INSTRUCTIONAL EQUIPMENT FOR UNDERGRADUATE LABORATORIES IN ZOOPHYSIOLOGY (SER-8162401)*; 24 MONTHS $9,374
ZANDLER, MELVIN; *A MICROCOMPUTER SYSTEM FOR CHEMICAL EDUCATION (SER-8162583)*; 24 MONTHS $9,501

KENTUCKY

AMERICAN PRINTING HOUSE FOR THE BLIND INC
FRANKS, FRANK L; *FUNDAMENTAL MATHEMATICS CONCEPTS FOR PHYSICALLY HANDICAPPED STUDENTS (SED-8109074)*; 36 MONTHS $162,565

APPALACHIA-SCIENCE IN THE PUBLIC INTEREST
FRITSCH, ALBERT J; *THE APPALACHIAN TECHNICAL ASSOCIATION PROJECT (ISP-7923395 A01)*; 12 MONTHS $65,720
FRITSCH, ALBERT J; *THE APPALACHIAN TECHNICAL ASSOCIATION PROJECT (ISP-7923395 A02*)*; 12 MONTHS $74,830

BELLARMINE COLLEGE
DYAR, JAMES J; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101407)*; 12 MONTHS $27,520

BEREA COLLEGE
GENTRY, CLAUDE E; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024436)*; 10 MONTHS $16,196
BOYCE, STEPHEN S; *INTRODUCTORY COMPUTER SIMULATION MODELING (SER-8161136)*; 30 MONTHS $8,009

EASTERN KENTUCKY UNIVERSITY
WERNEGREEN, JOHN; *USING MICROCOMPUTERS TO IMPROVE STUDENT LEARNING IN INTRODUCTORY NATURAL SCIENCE LABORATORIES (SER-8162123)*; 24 MONTHS $10,937

KENTUCKY WESLEYAN COLLEGE
FLACHSKAM, ROBERT L; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024372)*; 10 MONTHS $11,904

MURRAY STATE UNIVERSITY
ROBERTSON, HAROLD G; *DEVELOPMENT OF A STATISTICS LABORATORY AND INSTRUCTIONAL MODULES (SER-8162852)*; 24 MONTHS $7,647
MUSCIO, OLIVER J; *IMPROVEMENT OF UNDERGRADUATE INSTRUCTION IN NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY (SER-8162853)*; 24 MONTHS $16,985

NORTHERN KENTUCKY UNIVERSITY
FUTHEY, CAROL; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100973)*; 12 MONTHS $24,781

THOMAS MORE COLLEGE
LANG, JOSEPH E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026157)*; 12 MONTHS $8,800

UNIVERSITY OF KENTUCKY
HIEBERT, JAMES; *CHILDREN'S UNDERSTANDING OF DECIMAL NUMBERS (SED-8109731)*; 24 MONTHS $114,459
BRADLEY, EUGENE B; *FIBER OPTIC COMMUNICATIONS SYSTEMS FOR STUDENT LABORATORIES (SER-8162245)*; 24 MONTHS $5,155
CROMLEY, ROBERT G; *DEVELOPMENT OF AN AUTOMATED ANALYTICAL MAPPING AND REMOTE SENSING SYSTEM FOR THE UNDERGRADUATE GEOGRAPHY CURRICULUM (SER-8162286)*; 24 MONTHS $20,000

UNIVERSITY OF LOUISVILLE
WILLIAMS, W W; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024969)*; 10 MONTHS $19,375
FOULKE, EMERSON; *ADAPTION OF THE CHEMISTRY LABORATORY CURRICULUM FOR VISUALLY HANDICAPPED STUDENTS PHASE I INVENTORY OF LABORATORY OPERATIONS (SPI-8104833)*; 16 MONTHS $41,111
OUSEPH, P J; *RADIOISOTOPES LABORATORY IMPROVEMENT PROJECT (SER-8163011)*; 24 MONTHS $7,950

WESTERN KENTUCKY UNIVERSITY
MILLER, RICHARD L; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024794)*; 10 MONTHS $19,644

LOUISIANA

GRAMBLING STATE UNIVERSITY
DOUGLAS, SAMUEL H; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8025294)*; 10 MONTHS $45,216

INDIVIDUAL AWARD
SPROSS, RONALD L; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165135)*; 42 MONTHS $27,482
CARRIERE, EDWARD W; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT FROGRAM (SPI-8165136)*; 42 MONTHS $20,771

LOUISIANA STATE UNIVERSITY, BATON ROUGE
RAMAN, ARAVAMUDH; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026146)*; 12 MONTHS $19,363
ARNAS, OZER A; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8026831)*; 10 MONTHS $24,683

LOUISIANA TECH UNIVERSITY
HOLLADAY, LESLIE A; *REVITALIZATION OF UNDERGRADUATE BIOCHEMISTRY LABORATORIES (SER-8162169)*; 24 MONTHS $14,433

NICHOLLS STATE UNIVERSITY
CHAUVIN, JUDY V; *A NEW UNDERGRADUATE LEVEL CHEMISTRY COURSE (SER-8160982)*; 30 MONTHS $23,270

NORTHEAST LOUISIANA UNIVERSITY
KONTROVITZ, MERVIN; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025651)*; 12 MONTHS $21,733

NORTHWESTERN STATE UNIVERSITY OF LOUISIANA
GRIFFITH, THOMAS W; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026623)*; 12 MONTHS $19,012
GRAHAM, EDWARD W; *CAUSE - DEVELOPMENTAL MATHEMATICS FOR FRESHMAN SCIENCE STUDENTS (SER-8104801)*; 36 MONTHS $160,578

SOUTHERN UNIVERSITY
CHRISTIAN, FREDERICK A; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010740 A01)*; $960
GIBSON, EVERETT D; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100941)*; 18 MONTHS $30,850

ST MARY'S DOMINICAN COLLEGE
JETER, JAN; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100878)*; 18 MONTHS $34,840

UNIVERSITY OF NEW ORLEANS
FERNANDEZ, LOUIS A; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8107638)*; 17 MONTHS $22,380
WILDGEN, JOHN K; *COMPUTER EQUIPMENT FOR POLITICAL SCIENCE-SOCIOLOGY INSTRUCTIONAL IMPROVEMENT (SER-8162771)*; 24 MONTHS $11,350

XAVIER UNIVERSITY OF LOUISIANA
VINCENT, HAROLD A; *ADVANCED UNDERGRADUATE PHYSICS LABORATORY (SER-8162508)*; 24 MONTHS $3,800

MAINE

BATES COLLEGE
WYLIE, PHILIP L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025860)*; 12 MONTHS $13,200
PELLICCIA, JOSEPH G; *CELLULAR AND MOLECULAR BIOLOGY EQUIPMENT (SER-8162190)*; 24 MONTHS $12,314
CRAWFORD, STEPHEN; *COMPUTER LABORATORY FOR SOCIOLOGICAL INSTRUCTION (SER-8162757)*; 24 MONTHS $11,748

COLBY COLLEGE
NEWTON, THOMAS A; *AN UNDERGRADUATE LABORATORY SYNTHESIS OF AN INSECT PHEROMONE (SER-8160432)*; 30 MONTHS $8,117

INDIVIDUAL AWARD
HAGGARD, GARY M; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165050)*; 42 MONTHS $29,029

JACKSON LABORATORY
OUTZEN, HENRY C; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8025145)*; 10 MONTHS $10,795

UNITY COLLEGE
TAYLOR, JONATHAN; *CAUSE - DEVELOPMENT OF THE QUANTITATIVE PROGRAM IN ENVIRONMENTAL SCIENCE (SER-8103973)*; 36 MONTHS $101,249

UNIVERSITY OF MAINE, ORONO
VETELINO, JOHN F; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026415)*; 12 MONTHS $21,904
BEARD, EARL M; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101165)*; 12 MONTHS $30,742
BUTZOW, JOHN W; *MARINE RESOURCE UNITS DISSEMINATION PROJECT FOR MAINE AND NEW HAMPSHIRE (SER-8160922)*; 18 MONTHS $29,844
TYLER, DAVID A; *COMPUTER CARTOGRAPHY LAB (SER-8162674)*; 24 MONTHS $19,159

UNIVERSITY OF SOUTHERN MAINE
SEYMOUR, RICHARD D; *ETHICAL USES OF SCIENTIFIC KNOWLEDGE: AN INSTRUCTIONAL T V UNIT FOR HIGH SCHOOL (SED-8015817*)*; 12 MONTHS $168,524

MARYLAND

BUREAU OF THE CENSUS
LEVINE, DANIEL B; *SUPPORT FOR INTERAGENCY PANELS: EARLY CHILDHOOD RESEARCH AND DEVELOPMENT, AND DEVELOPMENT IN ADOLESCENCE (BNS-8005063 A01*)*; 12 MONTHS $10,000

CAPITAL SYSTEMS GROUP INC
CLANSKY, KENNETH B; *SUPPORT SERVICES FOR NSF RESEARCH INFORMATION PROCESSING AND DISSEMINATION PROGRAMS (12M-8020049 A01*)*; 4 MONTHS $45,105

CAPITOL INSTITUTE OF TECHNOLOGY
HO, ANDRES; *SEMICONDUCTOR DEVICES LABORATORY IMPROVEMENT (SER-8162380)*; 24 MONTHS $9,750

CHESAPEAKE RESEARCH CONSORTIUM INC

BALLING, JOHN D; *ROLE OF THE FAMILY IN THE PROMOTION OF SCIENCE LITERACY (SED-8112927)*; 24 MONTHS $172,715

CITIZENS PROGRAM FOR CHESAPEAK BAY INC

GOTTSCHALK, JOHN S, AND VALLIANT, JEREMIAH; *A PLANNING STUDY FOR THE ESTABLISHMENT OF A CHESAPEAKE BAY INFORMATION CENTER (OSS-8016324)*; 11 MONTHS $56,279

CONCERN GROUP INC

ALLEN, GARY G; *MANAGEMENT OF CONFERENCES ON COOPERATIVE RELATIONSHIPS BETWEEN COLLEGES AND UNIVERSITY SCIENTISTS AND PRE-COLLEGE EDUCATORS (SPI-8115180)*; 4 MONTHS $19,000

GOUCHER COLLEGE

DELAHUNTY, GEORGE; *PHYSIOLOGY LABORATORY EQUIPMENT (SER-8163020)*; 24 MONTHS $13,622

HOOD COLLEGE

WOOD, DEAN A; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101158)*; 18 MONTHS $19,952

HOWARD COMMUNITY COLLEGE

FRIEDMAN, DANIEL; *COMPUTER ASSISTED INSTRUCTION TO SUPPORT MASTERY LEARNING IN MATH/SCIENCE INSTRUCTION (SER-8163124)*; 24 MONTHS $18,647

INDIVIDUAL AWARD

LEYS, RUTH; *ETHICAL ISSUES IN THE MANAGEMENT OF HUNTINGTON'S DISEASE: A CASE-STUDY IN CLINICAL PSYCHIATRY (29P-8114332)*; 24 MONTHS $23,800

KASTNER, BERNICE; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165088)*; 42 MONTHS $22,585

HAMMOND, ROSELYN E B; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165128)*; 42 MONTHS $28,880

JOHNS HOPKINS UNIVERSITY-SCHOOL OF HYGIENE & PUBLIC HEALTH

NAVARRO, VICENTE; *AN INTERNATIONAL STUDY ON ETHICS AND VALUES IN OCCUPATIONAL MEDICINE (29P-8022921)*; 24 MONTHS $55,896

LOYOLA COLLEGE

DETOMA, ROBERT P; *COMPUTER APPLICATIONS TRAINING IN CHEMISTRY (SER-8162635)*; 24 MONTHS $14,815

MORGAN STATE UNIVERSITY

RITTER, FREDRIC A; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100865)*; 12 MONTHS $8,256

NATIONAL BUREAU OF STANDARDS

BRINCKMAN, F E, AND IVERSON, WARREN P; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160221)*; 18 MONTHS $15,000

SMITHSONIAN INSTITUTION-CHESAPEAKE BAY CTR FOR ENVIRONMENTAL STUDIES

FALK, JOHN H; *SCIENCE ACTIVITIES FOR INFORMAL LEARNING (SAIL) (AGE 11-14) (SED-8012307)*; 18 MONTHS $197,800

TOWSON STATE UNIVERSITY

HANSON, ROBERT B; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100887)*; 12 MONTHS $27,017

SIEGEL, MARTHA J; *APPLIED MATHEMATICS LABORATORY (SER-8160689)*; 30 MONTHS $29,998

UNIVERSITY OF MARYLAND, COLLEGE PARK-CENTER FOR ENVIRONMENTAL & ESTUARINE STUDIES

KENNEDY, VICTOR S; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025449)*; 12 MONTHS $14,710

UNIVERSITY OF MARYLAND, COLLEGE PARK

BROWN, PETER G; *THE PRESERVATION OF SPECIES: VALUE CONCERNS IN APPLICATION OF THE ENDANGERED SPECIES ACT (29P-8024358)*; 24 MONTHS $89,038

FEY, JAMES T; *MICROELECTRONIC TECHNOLOGY: IMPLICATIONS FOR SECONDARY SCHOOL MATHEMATICS CURRICULA (SED-8024425*)*; 18 MONTHS $203,558

LAYMAN, JOHN W; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101039)*; 12 MONTHS $27,003

WRIGHT, EMMETT L; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101266)*; 18 MONTHS $42,273

ONASCH, CHARLES M; *IMPROVEMENT OF GEOPHYSICS PROGRAM (SER-8162033)*; 24 MONTHS $5,885

VILLA JULIE COLLEGE

SANDERS, HILDAGARD K; *EQUIPMENT TO IMPROVE UNDERSTANDING OF GENERAL BIOLOGY BY STUDENTS OF DIVERSE ABILITIES (SER-8162991)*; 24 MONTHS $7,264

MASSACHUSETTS

AMHERST COLLEGE

BLANKENSHIP, ROBERT E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025861)*; 12 MONTHS $11,493

BELT, EDWARD S; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026603)*; 12 MONTHS $8,800

BAILEY, DUANE W; *EQUIPPING A CLASSROOM FOR COMPUTER SCIENCE INSTRUCTION (SER-8162546)*; 24 MONTHS $3,933

BOLT BERANEK AND NEWMAN INC

FEURZEIG, WALLACE; *DEVELOPMENT OF AN ARTICULATE INSTRUCTION SYSTEM FOR TEACHING ELEMENTARY SCHOOL ARITHMETIC PROCEDURES (SED-8012481)*; 15 MONTHS $160,343

BOSTON COLLEGE

CLARKE, MICHAEL J; *ATOMIC ABSORPTION INSTRUMENTATION IN ANALYTICAL CHEMISTRY LABORATORY COURSES (SER-8162790)*; 24 MONTHS $11,327

BOSTON NEIGHBORHOOD NETWORK

HOLLISTER, ROBERT M; *BOSTON NEIGHBORHOOD NETWORK FOR COMMUNITY SCIENCE AND TECHNOLOGY (ISP-8111079)*; 12 MONTHS $103,085

HOLLISTER, ROBERT M; *BOSTON NEIGHBORHOOD NETWORK FOR COMMUNITY SCIENCE AND TECHNOLOGY (ISP-8111079 A01*)*; 12 MONTHS $84,376

BOSTON UNIVERSITY

HAIM, GABRIEL; *A COGNITIVE PERSPECTIVE ON WOMEN STUDENTS EXPERIENCE WITH SCIENCE EDUCATION: IMPLICATIONS FOR WOMEN'S CAREER BEHAVIOR (SED-8020855)*; 24 MONTHS $151,860

ZIMMERMAN, GEORGE O; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024966)*; 10 MONTHS $23,270

ABEGG, GERALD L; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101281)*; 12 MONTHS $36,204

BARAM, MICHAEL S; *ETHICAL ISSUES IN THE USE OF BIOLOGICAL MONITORING FOR OCCUPATIONAL HEALTH (29P-8114738)*; 18 MONTHS $141,721

MOHR, SCOTT C; *DEVELOPMENT OF VIDEOTAPE INSTRUCTIONAL MODULES FOR ALLIED HEALTH CHEMISTRY LABORATORIES (SER-8161004)*; 30 MONTHS $29,993

BRANDEIS UNIVERSITY

MINOR, HASSAN; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8025136)*; 10 MONTHS $96,654

EPSTEIN, IRVING R; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026256)*; 12 MONTHS $21,933

STUHL, LOUIS S; *THE DEVELOPMENT OF A NEW COURSE IN MATERIALS CHEMISTRY (SER-8160678)*; 30 MONTHS $25,476

BRIDGEWATER STATE COLLEGE

WEYGAND, GEORGE A; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100882)*; 18 MONTHS $39,408

CLARK UNIVERSITY

FALMAGNE, RACHEL J; *ANALYSIS OF THE DEVELOPMENT OF DEDUCTIVE REASONING, WITH APPLICATIONS TO INSTRUCTION IN GEOMETRY (SED-8021459)*; 24 MONTHS $119,876

ANDERSEN, ROY S; *THE DEVELOPMENT OF COURSES ON THE NATURE OF PHYSICAL SCIENCE (SER-8160800)*; 30 MONTHS $30,000

COLLEGE OF OUR LADY OF THE ELMS

WRIGHT, MARY L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025849)*; 12 MONTHS $4,400

EASTERN NAZARENE COLLEGE

HALL, LOWELL H; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026246)*; 12 MONTHS $12,893

GTE LABORATORIES INC

AMBROSE, JOHN F; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160202)*; 18 MONTHS $40,000

HAMPSHIRE COLLEGE

WESTING, ARTHUR H; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8005670 A02)*; 12 MONTHS $8,964

STILLINGS, NEIL; *MICROCOMPUTER CONTROL OF EXPERIMENTS IN COGNITIVE PSYCHOLOGY AND PSYCHOLINGUISTICS (SER-8163019)*; 24 MONTHS $7,045

HARVARD UNIVERSITY

HOLTON, GERALD; *ETHICAL AND VALUE ISSUES IN THE ASSESSMENT OF SCIENCE: DEVELOPMENT AND TESTING OF INDICATORS OF QUALITY (ISP-7918701 A02)*; 6 MONTHS $7,405

INDIVIDUAL AWARD

KRUPAT, EDWARD; *FY 80 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8013113 A01)*; 35 MONTHS $566

WERTZ, DOROTHY C; *ETHICAL ISSUES IN THE INTERPRETATION AND COMMUNICATION OF CLINICAL RISK (29P-8114333)*; 24 MONTHS $23,575

CROCHETIERE, WILLIAM J; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165007)*; 42 MONTHS $20,139

WERTZ, DOROTHY C; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165044)*; 42 MONTHS $27,300

WEBSTER, ELEANOR R; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165049)*; 42 MONTHS $29,520

REISERT, PATRICIA S; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165072)*; 42 MONTHS $15,550

WIDMAYER, DOROTHEA J; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165092)*; 42 MONTHS $29,000

DAVIES, JOHN A; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165098)*; 39 MONTHS $21,383

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

COONEY, CHARLES L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026248)*; 12 MONTHS $20,869

WEINER, CHARLES; *MOLECULAR BIOLOGISTS AND TECHNOLOGY: HISTORICAL PERSPECTIVES ON CHANGING VALUES (ISP-8100186 A01)*; 36 MONTHS $64,095

PAPERT, SEYMOUR; *USING THE COMPUTER-BASED LOGO SYSTEM TO ENHANCE ACCESS TO CAREERS IN COMPUTER PROGRAMMING, MATH AND PHYSICS FOR THE PHYSICALLY HANDICAPPED (SPI-8104890)*; 16 MONTHS $48,470

THORNTON, RICHARD D; *MICROCOMPUTER CONTROL OF ENERGY SYSTEMS (SER-8162953)*; 24 MONTHS $20,000

MEDICINE IN THE PUBLIC INTEREST INC

SWAZEY, JUDITH P; *SOCIAL CONTROLS AND THE MEDICAL PROFESSION (OSS-8016833 A01)*; $138,658

MERRIMACK COLLEGE

RUSSELL, WILLIAM E; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101175)*; 18 MONTHS $22,484

BUEHLER, J N; *COMPUTER CONTROLLED STIMULUS GENERATION, DATA ANALYSIS, AND MONITORING OF EXPERIMENTS IN THE PSYCHOLOGY LABORATORY COURSES (SER-8162845)*; 24 MONTHS $2,271

MOUNT HOLYOKE COLLEGE

SMITH, JANICE G; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026195)*; 12 MONTHS $13,126

SMITH, SUSAN M; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026196)*; 12 MONTHS $19,800

PRYOR, MARILYN Z; *IMPROVEMENT OF INTRODUCTORY BIOLOGY LABORATORY EXERCISES (SER-8162417)*; 24 MONTHS $8,068

NICHOLSON, HOWARD W; *IMPROVEMENT OF ADVANCED PHYSICS LABORATORIES (SER-8162923)*; 24 MONTHS $5,365

SALEM STATE COLLEGE

MOORE, JOHNES K; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101157)*; 12 MONTHS $36,689

SIMMONS COLLEGE

WILLIAMS, N SANDRA; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026221)*; 12 MONTHS $13,200

HARTMAN, ICLAL S; *THE INTRODUCTION OF MICROPROCESSOR-CONTROLLED SPECTROPHOTOMETRIC TECHNIQUES INTO THE CHEMISTRY CURRICULUM (SER-8162215)*; 24 MONTHS $10,400

SIMON'S ROCK EARLY COLLEGE

HANDELMAN, EILEEN T; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8025108)*; 10 MONTHS $14,304

SMITH COLLEGE

REUTENER, DONALD B; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025691)*; 12 MONTHS $13,200

BURGER, H ROBERT; *INTERACTIVE COMPUTER PROGRAMS FOR INTRODUCTORY GEOLOGY COURSES (SER-8160890)*; 30 MONTHS $26,212

SOUTHEASTERN MASSACHUSETTS UNIVERSITY

SEARS, JAMES R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101456)*; 12 MONTHS $48,336

TECHNICAL EDUCATION RESEARCH CENTER INC

BARCLAY, WILLIAM L; *COMPUTER LITERACY FOR SCHOOL ADMINISTRATORS (SER-8160306)*; 12 MONTHS $29,987

TUFTS UNIVERSITY

PORTNEY, KENT E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025704)*; 12 MONTHS $21,353

SAMPLE, HOWARD H; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026400)*; 12 MONTHS $20,073

UNIVERSITY OF LOWELL

RENCRICCA, NICHOLAS J; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026420)*; 12 MONTHS $15,395

UNIVERSITY OF MASSACHUSETTS, AMHERST

KONICEK, RICHARD D; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101321)*; 18 MONTHS $24,055

POLLATSEK, ALEXANDER; *COGNITIVE SKILLS UNDERLYING STATISTICAL INFERENCE (SED-8113323)*; 36 MONTHS $128,844

EISENBERG, MURRAY; *MATERIALS FOR TEACHING LINEAR ALGEBRA AND OTHER MATHEMATICS THROUGH APL (SER-8160887)*; 30 MONTHS $26,246

CHANG, CHING S; *MICROCOMPUTER-BASED ENHANCEMENT OF SOIL MECHANICS COURSE (SER-8160986)*; 30 MONTHS $29,945

UNIVERSITY OF MASSACHUSETTS, BOSTON

KAPLAN, LAWRENCE; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026328)*; 12 MONTHS $16,239

ANTONOFF, MARVIN M; *BIOPHYSICAL INSTRUMENTATION: A MICROPROCESSOR-BASED COURSE (SER-8160943)*; 30 MONTHS $29,060

WELLESLEY COLLEGE

ALLEN, MARY M; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025703)*; 12 MONTHS $12,838

WGBH EDUCATIONAL FOUNDATION

RHODES, MICK; *PARTIAL SUPPORT FOR THE WEEKLY PUBLIC TELEVISION SERIES NOVA (OSS-7724406 A03)*; 12 MONTHS $200,000

WORCESTER POLYTECHNIC INSTITUTE

CLEMENTS, KEVIN A; *CAUSE - A MICROCOMPUTER-BASED VIDEO EDUCATIONAL SUPPORT SYSTEM: A PROPOSAL TO UPGRADE UNDERGRADUATE ENGINEERING AND SCIENCE INSTRUCTION (SER-8103943)*; 36 MONTHS $148,418

HOBEY, WILLIAM D; *TEACHING UNDERGRADUATE CHEMISTS USE OF THE MICROCOMPUTER (SER-8163223)*; 24 MONTHS $14,765

MICHIGAN

ALMA COLLEGE

BOWKER, RICHARD G; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025447)*; 12 MONTHS $13,162

CALVIN COLLEGE

BLANKESPOOR, RONALD L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025663)*; 12 MONTHS $10,867

CENTRAL MICHIGAN UNIVERSITY

DOUGLASS, CLAUDIA B, AND GILLINGHAM, JAMES C; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101317)*; 12 MONTHS $19,902

KOHRMAN, ROBERT E; *MASS SPECTROMETRY IN THE UNDERGRADUATE CURRICULUM (SER-8162565)*; 24 MONTHS $20,000

CURRENT, DAVID H; *IMPROVEMENT OF UPPER DIVISION EXPERIMENTAL PHYSICS PROGRAM (SER-8162630)*; 24 MONTHS $10,520

EASTERN MICHIGAN UNIVERSITY

NICHOLSON, ELVA MAE; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026322)*; 12 MONTHS $15,219

MOORE, JOHN W; *MODEL SYSTEM FOR DISSEMINATION OF MICROCOMPUTER-BASED INSTRUCTIONAL MATERIALS (SED-8107568)*; 24 MONTHS $163,350

FERRIS STATE COLLEGE

FLEMING, JOHN R; *INTEGRATING BASIC NUTRITION CONCEPTS INTO SECONDARY SCIENCE CURRICULUM (SER-8160970)*; 30 MONTHS $16,642

FONNER, DOUGLAS; *SPECIAL PROJECT UNDER ISEP: REFURBISHMENT OF PHYSIOGRAPHS FOR UNDERGRADUATE PHYSIOLOGY COURSES (SER-8162822)*; 24 MONTHS $20,000

GRAND RAPIDS JUNIOR COLLEGE

HOAG, RAYMOND J; *CAUSE - COMPUTER ASSISTED LEARNING (SER-8103895)*; 24 MONTHS $185,124

GRAND VALLEY STATE COLLEGES

KOCH, WALTON B; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101278)*; 12 MONTHS $8,798

HIGH SCOPE EDUCATIONAL RESEARCH FOUNDATION

ZINN, KARL L; *SUPPORT CENTERS FOR MICROCOMPUTERS IN SCIENCE EDUCATION (SED-7920124 A01)*; 6 MONTHS $25,050

HOPE COLLEGE

BOYER, RODNEY F; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026386)*; 12 MONTHS $13,200

JEKEL, EUGENE C; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100971)*; 12 MONTHS $41,204

WILLIAMS, DONALD H; *PURCHASE OF A GAS CHROMATOGRAPH/MASS SPECTROMETER SYSTEM (CHE-8106056*)*; 12 MONTHS $20,000

IMPRESSION 5 MUSEUM

DAVIS, CHARLES; *PLAYGROUND PHYSICS-A MUSEUM EXHIBIT (OSS-8023508)*; 24 MONTHS $70,043

INDIVIDUAL AWARD

WRIGHT, DAVID E; *VALUES IN AGRICULTURAL RESEARCH (29P-8114335)*; 18 MONTHS $11,900

SNOW, ROBERT E; *VALUES IN AGRICULTURAL RESEARCH (29P-8114336)*; 18 MONTHS $11,925

HECKENMUELLER, JEROME; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165013)*; 41 MONTHS $29,706

EDISON, LARRY A; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165100)*; 42 MONTHS $29,821

SIEGEL, JAY A; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165133)*; 42 MONTHS $18,350

SCHOCHETMAN, IRWIN; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165145)*; 42 MONTHS $25,824

KALAMAZOO COLLEGE

COOK, RICHARD J; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024950)*; 10 MONTHS $15,221

DEUTCH, CHARLES E; *A PROBLEM-ORIENTED APPROACH TO MICROBIOLOGY (SER-8160696)*; 30 MONTHS $5,496

DEUTCH, CHARLES E; *INTRODUCTION TO CENTRIFUGATION TECHNIQUES IN SUBCELLULAR & MOLECULAR BIOLOGY (SER-8162174)*; 24 MONTHS $18,640

MICHIGAN STATE UNIVERSITY

HUGHES, HERMAN D; *IMPACT OF MICROCOMPUTERS ON TEACHING MATH AND SCIENCE TO JUNIOR HIGH SCHOOL STUDENTS (SED-7919045 A01)*; 6 MONTHS $22,770

LAPPAN, GLENDA; *MIDDLE GRADES MATHEMATICS PROJECT EMPHASIZING PROBLEM SOLVING (SED-8018025)*; 24 MONTHS $233,387

SMITH, EDWARD L; *PLANNING & TEACHING INTERMEDIATE SCIENCE (SED-8020022 A01)*; 16 MONTHS $90,766

PEEBLES, CHARLES R; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024784)*; 10 MONTHS $15,638

MANSON, GARY; *COMPUTER-BASED MODULES FOR INTRODUCTORY GEOGRAPHY (SER-8160644)*; 30 MONTHS $24,837

WONG, PUI KEI; *MICRO-COMPUTER BASED MODULES FOR GEOMETRY AND MATRIX ALGEBRA (SER-8160876)*; 30 MONTHS $29,255

SUELTER, CLARENCE H; *SPECIAL PROJECT UNDER ISEP: REFURBISHMENT OF AN ULTRAVIOLET SPECTROPHOTOMETER FOR UNDERGRADUATE BIOCHEMISTRY LABORATORY INSTRUCTION (SER-8162283)*; 24 MONTHS $12,512

MICHIGAN TECHNOLOGICAL UNIVERSITY

KRAFT, KENNETH J; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025683)*; 12 MONTHS $6,600

SPAIN, JAMES D; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101488)*; 12 MONTHS $41,200

MCDOWELL, S DOUGLAS; *ADDITION OF LIVE AND VIDEOTAPE COLOR-TV FACILITIES TO MICROSCOPY TRAINING IN UNDERGRADUATE PETROLOGY (SER-8163077)*; 24 MONTHS $8,001

NORTHERN MICHIGAN UNIVERSITY

MCGINTY, ROBERT L; *MATHEMATICS CURRICULUM INFORMATION FOR UPPER MICHIGAN ADMINISTRATORS AND TEACHERS (SER-8160334)*; 12 MONTHS $28,601

SWAFFORD, BILL E; *MICROCOMPUTER LABORATORY (SER-8163302)*; 24 MONTHS $18,920

SIENA HEIGHTS COLLEGE

GLASER, KAREN; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106871)*; 17 MONTHS $22,285

SUOMI COLLEGE

WANHALA, DONALD; *CAUSE - ENVIRONMENTAL SCIENCE PROGRAM DEVELOPMENT (SER-8103977)*; 36 MONTHS $178,779

UNIVERSITY OF DETROIT

SZMANT, HERMAN H; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100998)*; 12 MONTHS $34,950

UNIVERSITY OF MICHIGAN-ANN ARBOR

STENECK, NICHOLAS H; *VALUES ISSUES IN RESEARCH ON THE BIOLOGICAL EFFECTS OF MICROWAVE RADIATION: A CASE STUDY (PART II) (ISP-7921284 A01)*; $3,850

BURCKHALTER, JOSEPH H; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026361)*; 12 MONTHS $21,971

HINMAN, PETER G; *DEVELOPMENT OF PRE-CALCULUS INSTRUCTIONAL SOFTWARE (SER-8160719)*; 30 MONTHS $27,974

MCKEACHIE, WILBERT J; *A COGNITIVE PSYCHOLOGY COURSE FOR BEGINNING COLLEGE AND UNIVERSITY STUDENTS (SER-8160978)*; 30 MONTHS $25,419

VALENSTEIN, ELLIOT S; *LABORATORY AND FIELD PROBLEMS AND METHODS IN PSYCHOBIOLOGY (SER-8162550)*; 24 MONTHS $11,286

UNIVERSITY OF MICHIGAN-DEARBORN

SINGER, MIMI; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8160131)*; 23 MONTHS $19,956

WATERFORD SCHOOL DISTRICT

GROSS, RANDY E; *USING PROBLEM SOLVING IN JUNIOR HIGH MATHEMATICS (SED-8024463)*; 18 MONTHS $71,051

WAYNE STATE UNIVERSITY

CAMP, JOHN S; *COMPUTER ENHANCED STATISTICS MODULES FOR THE UPPER ELEMENTARY GRADES (29D-8024223)*; 18 MONTHS $10,442

SINGH, TRILOCHAN; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106374)*; 17 MONTHS $20,000

MIZUKAMI, HIROSHI; *DEVELOPMENT OF A COURSE IN PHYSICO-CHEMICAL BIOLOGY (SER-8161062)*; 30 MONTHS $22,693

GANGOPADHYAY, CHITTA; *ENRICHMENT PROJECT FOR CIVIL ENGINEERING MATERIALS AND GEOTECHNICAL ENGINEERING COURSES (SER-8162648)*; 24 MONTHS $19,375

WESTERN MICHIGAN UNIVERSITY

KAUFMAN, ROBERT W; *THE SCIENCE FOR CITIZENS CENTER FOR SOUTHWESTERN MICHIGAN (OSS-7923390 A01)*; $50,000

KAUFMAN, ROBERT W; *THE SCIENCE FOR CITIZENS CENTER OF SOUTHWESTERN MICHIGAN (ISP-7923390 A02)*; 12 MONTHS $100,000

KAUFMAN, ROBERT W; *THE SCIENCE FOR CITIZENS CENTER FOR SOUTHWESTERN MICHIGAN (ISP-7923390 A03*)*; 12 MONTHS $100,000

MEYER, RUTH ANN; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100876)*; 12 MONTHS $25,311

HIRSCH, CHRISTIAN R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100877)*; 18 MONTHS $20,580

MARKLE, GERALD E; *CONSENSUS DEVELOPMENT IN BIOMEDICAL DISPUTES (29P-8107014)*; 18 MONTHS $11,724

MINNESOTA

BEMIDJI STATE UNIVERSITY

SEA, DUANE L; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024587)*; 10 MONTHS $35,000

SEA, DUANE L, AND SMITH, GERALD J; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101329)*; 18 MONTHS $36,500

PICKETT, ROBERT C; *LABORATORY COMPUTERIZATION IN PHYSICS (SER-8160839)*; 30 MONTHS $16,997

CARLETON COLLEGE

CARLIN, CHARLES H; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026365)*; 12 MONTHS $13,092

BUCHWALD, CARYL E; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101474)*; 12 MONTHS $23,317

COLLEGE OF ST CATHERINE

GOTTFRIED, BRADLEY M; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025921)*; 12 MONTHS $4,400

SERIE, JANET R; *INSTRUCTIONAL EQUIPMENT FOR UNDERGRADUATE PHYSIOLOGY COURSES (SER-8162785)*; 24 MONTHS $5,100

COLLEGE OF ST THOMAS

KEMPER, JOHN T; *A CALCULUS SEQUENCE FOR THE BIOLOGICAL SCIENCES (SER-8161021)*; 30 MONTHS $11,572

GUSTAVUS ADOLPHUS COLLEGE

SIMPSON, BARBARA E; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8160147)*; 26 MONTHS $13,820

MOLINE, ROBERT T; *IMPROVING INSTRUCTION IN METEOROLOGY/CLIMATOLOGY WITH WEATHER FACSIMILE CHARTS (SER-8162273)*; 24 MONTHS $4,296

HOLTE, JOHN M; *ESTABLISHING A MICROCOMPUTER LABORATORY (SER-8162329)*; 24 MONTHS $5,766

INDIVIDUAL AWARD

WESLEY, WALTER G; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165045)*; 42 MONTHS $23,522

ANDERSON, DENNIS U; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165085)*; 42 MONTHS $25,679

ENERSEN, PAUL O; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165109)*; 42 MONTHS $29,158

MACALESTER COLLEGE

ROBERTS, A WAYNE; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026229)*; 12 MONTHS $12,693

MANKATO STATE UNIVERSITY

INMAN, FRED W; *CAUSE - EXPANDED USE OF COMPUTERS IN SCIENCE EDUCATION (SER-8103786)*; 36 MONTHS $250,000

MINNESOTA EDUCATIONAL COMPUTING CONSORTIUM

ANDERSON, RONALD E; *COMPUTER AWARENESS AND LITERACY OF ADOLESCENT AND EARLY ADOLESCENT STUDENTS: AN EMPIRICAL ASSESSMENT (SED-7920087 A02)*; 3 MONTHS $8,118

SOUTHWEST STATE UNIVERSITY

TOBEY, MALCOLM D; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8025095)*; 10 MONTHS $12,370

ST JOHN'S UNIVERSITY

POFF, JAMES M; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026194)*; 12 MONTHS $12,350

ST MARY'S COLLEGE

RADEMACHER, JEROME; *SPECIAL PROJECT UNDER ISEP: IMPROVEMENT OF INSTRUCTION ON THE USE OF OSCILLOSCOPES (SER-8162632)*; 24 MONTHS $15,000

ST MARY'S JUNIOR COLLEGE

BRODERICK, MARY E; *ADAPTATION OF SCIENCE LEARNING EXPERIENCES FOR DEAF STUDENTS (SPI-8104920)*; 15 MONTHS $48,220

ST OLAF COLLEGE

DEASON, GARY B; *HISTORY OF SCIENCE AND MATHEMATICS SEMINAR (SER-8160955)*; 30 MONTHS $28,552

UNIVERSITY OF MINNESOTA-INSTITUTE OF TECHNOLOGY

DONATH, MAX; *DEVELOPMENT OF COMPUTER-AIDED MANUFACTURING LABORATORY (SER-8162798)*; 24 MONTHS $19,992

UNIVERSITY OF MINNESOTA

MARSHAK, MARVIN L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026188)*; 12 MONTHS $17,524

KAC, MICHAEL B; *A COMPUTERIZED GRAMMAR-TESTER FOR INTRODUCTORY LINGUISTICS COURSES (SER-8161014)*; 30 MONTHS $3,998

KEENER, JOHN R; *IMPROVEMENT OF INSTRUCTIONAL LABORATORIES IN HUMAN AND EXERCISE PHYSIOLOGY (SER-8162392)*; 24 MONTHS $6,674

UNIVERSITY OF MINNESOTA AT DULUTH

GALLIAN, JOSEPH A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025914)*; 12 MONTHS $6,598

HENDRICKSON, A D; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100981)*; 12 MONTHS $21,235

JORDAN, THOMAS F; *QUANTUM MECHANICS FOR NON-PHYSICS MAJORS (SER-8160609)*; 30 MONTHS $8,930

UNIVERSITY OF MINNESOTA AT SAINT PAUL

WELCH, WAYNE W; *SURVEY OF SCIENCE UNDERSTANDING AND ATTITUDES (SED-8022125 A01)*; 12 MONTHS $276,579

SAUERBIER, WALTER; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026174)*; 12 MONTHS $22,000

BIRMINGHAM, DON L, AND FORRO, FREDERICK; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106375)*; 17 MONTHS $50,000

BLUMENFELD, MARTIN; *THE DEVELOPMENT OF CELL BIOLOGY LABORATORY AT THE UNIVERSITY OF MINNESOTA (SER-8161010);* 30 MONTHS $28,768

WINONA STATE UNIVERSITY

NIELSEN, DENNIS N; *CURRICULUM IMPROVEMENT: PURCHASE OF X-RAY DIFFRACTOMETER (SER-8162081);* 24 MONTHS $11,360

MISSISSIPPI

ALCORN STATE UNIVERSITY

EDNEY, NORRIS A; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101428);* 18 MONTHS $28,340

INDIVIDUAL AWARD

ROSS, STEPHEN T; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165112);* 42 MONTHS $20,956

JACKSON STATE UNIVERSITY

MCLEMORE, LESLIE B; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-7910145 A02);* 15 MONTHS $1,440

TROTTMAN, CHARLES H; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024985);* 10 MONTHS $44,075

TROTTMAN, CHARLES H; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101334);* 18 MONTHS $40,360

ARCHER, VERNON S; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8160007);* 42 MONTHS $71,100

JEFFERSON, FRANKLIN; *INFORMATION DISSEMINATION FOR SOCIAL STUDIES EDUCATION IN CENTRAL MISSISSIPPI (SER-8160365);* 24 MONTHS $27,954

TAYLOR, BEVERLEY A; *A PHYSICS COURSE TO DEVELOP REASONING SKILLS IN ACADEMICALLY DISADVANTAGED STUDENTS (SER-8160904);* 30 MONTHS $21,850

TAYLOR, BARNEY E; *EXPANSION AND IMPROVEMENT OF ADVANCED PHYSICS ELECTRONIC INSTRUMENTATION COURSES (SER-8162997);* 24 MONTHS $15,100

MISSISSIPPI INDUSTRIAL COLLEGE

DEBRO, LAJOYCE; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8025000);* 10 MONTHS $24,869

PERKINS, MURIEL W; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026289);* 12 MONTHS $13,200

PERKINS, MURIEL W; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101285);* 12 MONTHS $24,022

RUST COLLEGE

MOORE, RONALD; *CAUSE - COMPUTER BASED EDUCATION IN SCIENCES (SER-8103838);* 36 MONTHS $249,396

TOUGALOO COLLEGE

HILL, GLAKE A; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8025134);* 20 MONTHS $34,989

UNIVERSITY OF MISSISSIPPI

BORNE, RONALD F; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026335);* 12 MONTHS $19,657

DE BORD, LARRY W; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026417);* 12 MONTHS $21,718

NAMORATO, MICHAEL V; *THE APPLICATION OF QUANTITATIVE ANALYSIS TO AMERICAN ECONOMIC HISTORY COURSES (SER-8160716);* 30 MONTHS $19,960

SHAW, JEAN M; *MICROCOMPUTERS FOR SCIENCE EDUCATION (SER-8162340);* 24 MONTHS $3,631

FOWLER, STEPHEN C; *MICROCOMPUTER-BASED INSTRUCTIONAL LABORATORIES FOR CONDITIONING, COGNITION, AND STATISTICS (SER-8162344);* 24 MONTHS $14,654

UNIVERSITY OF SOUTHERN MISSISSIPPI

HARSH, JOHN; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026594);* 12 MONTHS $20,478

DOBLIN, STEPHEN A; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100939);* 12 MONTHS $43,577

CADE, RUTH A; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8160152);* 13 MONTHS $19,960

MISSOURI

INDIVIDUAL AWARD

KERN, ERNEST L; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165117);* 42 MONTHS $15,049

ANDERSON, HAROLD D; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165120);* 42 MONTHS $24,299

MARYVILLE COLLEGE-SAINT LOUIS

KING, MARSHALL R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100867);* 18 MONTHS $33,804

SPARLING, DANIEL L; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100968);* 12 MONTHS $40,808

MCDONNELL DOUGLAS CORPORATION-MCDONNELL DOUGLAS RESEARCH LABORATORIES

AMES, D P; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160205);* 18 MONTHS $30,000

ROCKHURST COLLEGE

MACDONALD, CAROLYN T; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101397);* 12 MONTHS $18,371

SOUTHEAST MISSOURI STATE UNIVERSITY

STOEVER, EDWARD C; *THE DEVELOPMENT OF A MINING GEOLOG CURRICULUM (SER-8160754);* 30 MONTHS $22,709

STOEVER, EDWARD C; *DEVELOPMENT OF A MINING GEOLOGY CU RICULUM IN A REGIONAL UNIVERSITY (SER-8162531);* 24 MONTH $19,876

SOUTHWEST MISSOURI STATE UNIVERSITY

AWAD, MASSOUD M; *PRE-COLLEGE TEACHER DEVELOPMENT IN SC ENCE (SPI-8101339);* 12 MONTHS $26,566

UNIVERSITY OF MISSOURI, COLUMBIA

EISENSTARK, ABRAHAM; *STUDENT SCIENCE TRAINING PROGRA (SPI-8024382);* 10 MONTHS $14,679

WAID, REX A; *STUDENT SCIENCE TRAINING PROGRAM (SPI-802477* 10 MONTHS $29,603

MERLO, DONALD J; *UNDERGRADUATE RESEARCH PARTICIPATIO (SPI-8026634);* 12 MONTHS $4,388

STROM, ROBERT J; *PRE-COLLEGE TEACHER DEVELOPMENT IN SC ENCE (SPI-8100997);* 18 MONTHS $39,000

REYS, ROBERT E; *A COMPUTATIONAL ESTIMATION PROGRAM FO MIDDLE GRADES MATHEMATICS (SED-8113601);* 18 MONTHS $185,872

UNIVERSITY OF MISSOURI, ROLLA

MOLLENKAMP, ROBERT A; *MICROCOMPUTER-BASED CONTINUIN EDUCATION COURSES IN CONTROL ENGINEERING (SED-8020967);* MONTHS $245,501

SPARLIN, DON M; *UNDERGRADUATE RESEARCH PARTICIPATIO (SPI-8025425);* 12 MONTHS $21,911

FAUCETT, THOMAS R; *CAUSE - DEVELOPMENT AND IMPLEMENTA TION OF AN INTEGRATED COMPUTER AIDED DESIGN, ANALYSIS, AN MANUFACTURING SYSTEM (SER-8104001);* 24 MONTHS $249,903

MORRIS, JACK F; *ADDITION OF AUTOMATED TEST EQUIPMENT T AN ELECTRICAL ENGINEERING LABORATORY (SER-8162819);* MONTHS $12,000

WASHINGTON UNIVERSITY

CALVERT, RANDALL L, ALT, JAMES E, AND WOOLLEY, JOHN T; *A EARLY INTRODUCTION TO QUANTITATIVE METHODS IN POLITICA SCIENCE (SER-8161106);* 30 MONTHS $25,246

CHILTON, MARY-DELL; *EQUIPMENT FOR A LABORATORY COURSE O DNA MANIPULATION (SER-8162077);* 24 MONTHS $18,322

MONTANA

MONTANA COUNCIL OF TEACHERS OF MATHEMATICS

DOLAN, DAN T; *DISSEMINATION OF MICROCOMPUTER INFORMATIO AMONG MONTANA TEACHERS AND SCHOOL DECISION MAKERS (SER 8160338);* 24 MONTHS $27,689

MONTANA STATE UNIVERSITY

PEAVY, HOWARD S; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCI ENCE (SPI-8101417);* 12 MONTHS $25,451

MARKOVITS, PAUL S; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101439);* 12 MONTHS $32,198

UNIVERSITY OF MONTANA

LIBESKIND, SHLOMO; *DEVELOPMENT OF A COURSE IN GEOMETRY THROUGH TURTLE GRAPHICS (SER-8160728);* 30 MONTHS $29,821

CARD, GEORGE L; *A LIQUID SCINTILLATION SYSTEM FOR INTRODUC TION TO RADIOISOTOPES IN BIOLOGY (SER-8162131);* 24 MONTHS $11,568

NEBRASKA

BELLEVUE COLLEGE

LANHAM, ORVILLE; *STUDENT SCIENCE TRAINING (SPI-8024797);* 10 MONTHS $14,006

CREIGHTON UNIVERSITY

MALONEY, DAVID P; *IMPROVING THE REASONING ABILITY OF PHYS ICS STUDENTS (SER-8160954);* 30 MONTHS $28,827

HASTINGS COLLEGE

SACHTLEBEN, CLYDE C; *MODERN PHYSICS INSTRUCTIONAL INSTRU MENTATION (SER-8162569);* 24 MONTHS $4,700

MATTES, FREDERICK H; *IMPROVEMENT OF THE PHYSICAL CHEMIS TRY LABORATORY COURSE (SER-8162971);* 24 MONTHS $880

INDIVIDUAL AWARD

KARLOF, JOHN; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOP MENT PROGRAM (SPI-8165067);* 42 MONTHS $20,230

KEARNEY STATE COLLEGE

SPRINGER, JOSEPH T; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026419);* 12 MONTHS $21,867

ROARK, JAMES L; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCI ENCE (SPI-8101006);* 12 MONTHS $10,807

ROARK, JAMES L; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCI ENCE (SPI-8101615);* 18 MONTHS $15,876

GOLDMAN, GEORGE; *EXTENDED USE OF MICROCOMPUTERS TO TEACH COMPUTER LITERACY (SER-8160760);* 30 MONTHS $23,077

MIDLAND LUTHERAN COLLEGE

BUNCK, STEVEN A; *DEVELOPMENT OF COMPUTER-BASED, UNDERGRADUATE SCIENCE EXPERIMENTS (SER-8160663);* 30 MONTHS $13,247

UNIVERSITY OF NEBRASKA AT LINCOLN
LEONARD, WILLIAM H; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8000198 A01)*; 24 MONTHS $2,830
BROOKS, DAVID W; *CAUSE - SCIENCE RESOURCE CENTERS (SER-8103837)*; 24 MONTHS $235,908

NEVADA

UNIVERSITY OF NEVADA, LAS VEGAS
CLOUD, STANLEY D; *NUCLEAR PHYSICS LABORATORY (SER-8162064)*; 24 MONTHS $20,000

UNIVERSITY OF NEVADA, RENO
JOHNSON, BRUCE P; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026167)*; 12 MONTHS $20,271
KERSTEN, EARL W; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100889)*; 12 MONTHS $29,422

NEW HAMPSHIRE

ANTIOCH UNIVERSITY-NEW ENGLAND GRADUATE SCHOOL
SOWERS, ERROL; *POLICY WORKSHOPS ON THE USE OF WOOD FOR ENERGY IN CHESHIRE COUNTY, NEW HAMPSHIRE (OSS-8016337)*; 12 MONTHS $46,950
SOWERS, ERROL; *POLICY WORKSHOPS ON THE USE OF WOOD FOR ENERGY IN CHESHIRE COUNTY, NEW HAMPSHIRE (ISP-8016337 A01)*; 12 MONTHS $29,292

DARTMOUTH COLLEGE
HUGGINS, ELISHA R; *CAUSE- INTEGRATED STANDARDIZED GRAPHICAL COMPUTER SYSTEM FOR UNDERGRADUATE SCIENCE EDUCATION (SER-8005222 A01)*; 32 MONTHS $129,775
SODERBERG, ROGER H; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026413)*; 12 MONTHS $21,999

INDIVIDUAL AWARD
GERT, BERNARD; *SUSTAINED DEVELOPMENT AWARD (29P-8018088 A01)*; 12 MONTHS $18,250

MONTSHIRE MUSEUM OF SCIENCE
QUINN, ALLIE; *MONTSHIRE PUBLIC SERVICE SCIENCE CENTER (ISP-7923389 A01)*; 12 MONTHS $61,824
QUINN, ALLIE; *MONTSHIRE PUBLIC SERVICE SCIENCE CENTER (ISP-7923389 A02*)*; 12 MONTHS $47,824

NEW HAMPSHIRE ASSN OF CONSERVATION COMMISSIONS
TAYLOR, MALCOLM T; *WORKSHOPS ON HAZARDOUS WASTE MANAGEMENT IN NORTHERN NEW ENGLAND (OSS-8016327)*; 6 MONTHS $27,817

SAINT ANSELM COLLEGE
LAVOIE, DANIEL J; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025923)*; 12 MONTHS $6,600

UNIVERSITY OF NEW HAMPSHIRE, DURHAM
AMELL, ALEXANDER R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101320)*; 12 MONTHS $34,449
MUNDY, JOAN F; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION ENCOURAGING THE MATHEMATICS PARTICIPATION OF NEW HAMPSHIRE GIRLS (SER-8160401)*; 12 MONTHS $38,900
GAUDETTE, HENRI E; *QUANTITATIVE ANALYSIS OF GEOLOGIC AND OCEANOGRAPHIC MATERIALS BY ATOMIC ABSORPTION SPECTROMETRY (SER-8162384)*; 24 MONTHS $9,500
WEISMAN, GARY R; *EXPERIMENTAL NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY (SER-8162396)*; 24 MONTHS $13,028
MOYNIHAN, ROBERT G; *IMPROVEMENT OF UNDERGRADUATE SURVEYING CURRICULUM WITH MODERN SURVEYING EQUIPMENT (SER-8162836)*; 24 MONTHS $19,917
GRESS, DAVID L; *AN IMPROVED ENGINEERING MATERIALS AND STRUCTURES LABORATORY (SER-8162837)*; 24 MONTHS $20,000
DAVIS, JAMES R; *DEVELOPING STATISTICAL INTUITIONS: INTERACTIVE MICROCOMPUTER GRAPHICS FACILITIES (SER-8162858)*; 24 MONTHS $20,000

NEW JERSEY

COLLEGE OF ST ELIZABETH
SMITH, MARIAN J; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101455)*; 12 MONTHS $21,851

COUNCIL FOR THE ADVANCEMENT OF SCIENCE WRITING
CROMIE, WILLIAM J; *NEW HORIZONS IN SCIENCE BRIEFINGS FOR JOURNALISTS (OSS-7812774 A01)*; 12 MONTHS $27,011

DREW UNIVERSITY
MILLER, JAMES M; *ENERGY DISPERSIVE X-RAY FLUORESCENCE STUDIES (SER-8162823)*; 24 MONTHS $17,750

EDUCATIONAL TESTING SERVICE
BEJAR, ISAAC I; *INTERACTIVE VIDEODISC APPLICATIONS TO ELEMENTARY MATHEMATICS EDUCATION (SED-8024465)*; 18 MONTHS $147,918

FAIRLEIGH DICKINSON UNIVERSITY
BRUDNER, HELEN G; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026162)*; 12 MONTHS $21,590

GLASSBORO STATE COLLEGE
MASAT, FRANCIS E; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101608)*; 12 MONTHS $17,550

INDIVIDUAL AWARD
LAPIDUS, I R; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165019)*; 42 MONTHS $22,860

MONMOUTH COLLEGE
NAIK, DATTA V; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101045)*; 12 MONTHS $24,549

MONTCLAIR STATE COLLEGE
FINK, LUCILE S; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8160165)*; 13 MONTHS $19,780

NEW JERSEY INSTITUTE OF TECHNOLOGY
KIMMEL, HOWARD S; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024027)*; 10 MONTHS $16,320
DEUTSCHMAN, HAROLD D; *STUDENT SCIENCE TRAINING (SPI-8024030)*; 10 MONTHS $12,870
KIMMEL, HOWARD S; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100563)*; 18 MONTHS $26,475
DEUTSCHMAN, HAROLD D; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106363)*; 17 MONTHS $23,200
KIMMEL, HOWARD S; *DISSEMINATION OF AN INTERDISCIPLINARY APPROACH TO ENERGY EDUCATION FOR HIGH SCHOOL SCIENCE AND SOCIAL SCIENCE TEACHERS (SER-8160363)*; 24 MONTHS $29,667

PRINCETON UNIVERSITY
MULVEY, JOHN M; *NEW UNDERGRADUATE ENGINEERING MATERIALS - COMPUTER MODELS IN THE CONTEXT OF COMPETING SOCIAL VALUES (SED-7918998 A01)*; 12 MONTHS $71,840
CORNWELL-JONES , CATHERIN; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026390)*; 12 MONTHS $21,998
ABDEL-GHAFFAR, AHMED M; *ESTABLISHING AN UNDERGRADUATE STRUCTURAL DYNAMICS LABORATORY (SER-8162578)*; 24 MONTHS $15,750

RUTGERS UNIVERSITY-BUSCH CAMPUS
KLEIN, LISA C; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025440)*; 12 MONTHS $8,100
SLOVAK, JEFFREY S; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026620)*; 12 MONTHS $17,591

SETON HALL UNIVERSITY
HIRSCH, ROLAND F; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025940)*; 12 MONTHS $10,228
ASHWORTH, HARRY A; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101230)*; 18 MONTHS $19,611
ASHWORTH, HARRY A; *MICROCOMPUTER-BASED INSTRUMENTATION FOR INTRODUCTORY PHYSICS LABORATORIES (SER-8163021)*; 24 MONTHS $6,583

ST PETER'S COLLEGE
CALIANESE, ALESSANDR; *CAUSE - IMPROVEMENT OF SCIENCE INSTRUCTION VIA THE DEVELOPMENT OF A CAI-CSI EDUCATIONAL COMPONENT (SER-8103847)*; 36 MONTHS $163,270

STEVENS INSTITUTE OF TECHNOLOGY
MANHAS, MAGHAR S; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026354)*; 12 MONTHS $21,998
LAPIDUS, I R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101066)*; 18 MONTHS $26,499
MC CLELLAN, JAMES E; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101145)*; 12 MONTHS $20,599

STOCKTON STATE COLLEGE
HARTZOG, SANDRA H; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026235)*; 12 MONTHS $12,955

NEW MEXICO

NAVAJO COMMUNITY COLLEGE
TURNER, JOHN W; *SUPPORT SYSTEM FOR SCIENCE TEACHERS (SER-8119094)*; 36 MONTHS $129,908

NEW MEXICO HIGHLANDS UNIVERSITY
RIVERA, GILBERT D; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100891)*; 18 MONTHS $44,998

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY
TURNEY, THOMAS H; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026428)*; 12 MONTHS $6,580

NEW MEXICO STATE UNIVERSITY
DUNFORD, MAX P; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025927)*; 12 MONTHS $21,503
SCHLEUSENER, STUART A; *EQUIPMENT FOR LASER/ELECTRO-OPTICS TEACHING LABORATORY (SER-8162145)*; 24 MONTHS $20,000

UNIVERSITY OF NEW MEXICO
COLEMAN, WILLIAM F; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026227)*; 12 MONTHS $18,912
GRIEGO, RICHARD J; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106877)*; 17 MONTHS $50,000

COLEMAN, WILLIAM F; *LASER SPECTROSCOPY IN THE ADVANCED UNDERGRADUATE LABORATORY (SER-8162418);* 24 MONTHS $7,200

NEW YORK

ADELPHI UNIVERSITY

CASSIN, JOSEPH M; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101355);* 12 MONTHS $24,039

ALFRED P SLOAN FOUNDATION

KLIVINGTON, KENNETH A; *THE BRAIN AND EDUCATION: A STUDY OF NEUROSCIENCE, COGNITIVE SCIENCE AND EDUCATION (SED-8113062);* 6 MONTHS $10,000

ALFRED UNIVERSITY

STULL, JOHN L; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101067);* 12 MONTHS $14,475

ALFRED UNIVERSITY-NEW YORK STATE COLLEGE OF CERAMICS

REED, JAMES S; *LABORATORY INSTRUCTION IN CERAMIC FABRICATION PROCESSES (SER-8162464);* 24 MONTHS $4,165

AMERICAN INSTITUTE OF PHYSICS

LIKELY, AUDREY; *SCIENCE NEWS FEATURES ON LOCAL TV NEWS (OSS-8023774);* 12 MONTHS $160,426

ARGICULTURAL AND TECH COLLEGE AT DELHI

PEEL, MARK S; *CAUSE - A COMPREHENSIVE PROGRAM FOR COMPUTER RELATED INSTRUCTION (SER-8103864);* 36 MONTHS $249,941

ASSOCIATED UNIVERSITIES INC-ASSOCIATED UNIVERSITIES INC-UPTON

CREUTZ, CAROL; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160226);* 18 MONTHS $20,000

BARD COLLEGE

ROSENTHAL, MICHAEL; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101513);* 18 MONTHS $47,371

BARNARD COLLEGE

BALSAM, PETER D; *CAUSE - COMPREHENSIVE IMPROVEMENTS IN CURRICULUM AND INSTRUCTIONAL TECHNOLOGY (SER-8103827);* 36 MONTHS $249,760

MILLER, ALICE; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106868);* 17 MONTHS $29,564

FOLEY, DUNCAN K; *COMPUTER EQUIPMENT TO ENHANCE STATISTICAL SKILLS OF ECONOMICS STUDENTS (SER-8163177);* 24 MONTHS $2,775

BRONX COMMUNITY COLLEGE

MORRILL, PETER; *CAUSE - PROJECT ARISE: AUDIOVISUAL RESOURCES IN SCIENCE EDUCATION (SER-8103851);* 24 MONTHS $87,750

BROOKHAVEN NATIONAL LABORATORY

METZ, DONALD J; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101487);* 12 MONTHS $30,951

BROOKLYN COLLEGE

JORDAN, MEYER; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101384);* 18 MONTHS $46,135

CHILDREN'S TELEVISION WORKSHOP

MIELKE, KEITH W; *A CHILDREN'S TELEVISION SERIES ABOUT SCIENCE AND TECHNOLOGY (OSS-8024090);* 12 MONTHS $1,500,000

MIELKE, KEITH W; *3-2-1 CONTACT--A CHILDREN'S TELEVISION SERIES ABOUT SCIENCE AND TECHNOLOGY (OSS-8024090 A02);* $570,000

CITY COLLEGE

ERLBACH, ERICH; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024785);* 20 MONTHS $28,500

WILEN, SAMUEL H; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026238);* 12 MONTHS $20,265

COOPER, GEORGE W; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026239);* 12 MONTHS $22,000

TYSON, CYRIL D, AND LUSTIG, HARRY; *PLANNING A PUBLIC SERVICE SCIENCE CENTER FOR HARLEM (ISP-8100380);* 12 MONTHS $53,693

POSAMENTIER, ALFRED; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100943);* 18 MONTHS $38,488

LEA, ROBERT M; *RESOURCE CENTER IN SCIENCE AND ENGINEERING AT CITY COLLEGE (SER-8104830);* 48 MONTHS $2,724,193

CHENG, DAVID H; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8160006);* 42 MONTHS $47,400

ROSS, GEORGE G, AND CHITAYAT, DEANNA; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8160128);* 36 MONTHS $149,939

CITY UNIVERSITY OF NEW YORK SYSTEM OFFICE

FORMAN, SUSAN L; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8160102);* 16 MONTHS $20,000

CLARKSON COLLEGE OF TECHNOLOGY

HARRIS, SANDRA L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026155);* 12 MONTHS $21,825

ANNAMALAI, NAGAPPAN K; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026641);* 12 MONTHS $17,527

WARD, THOMAS J; *COMPUTER-BASED PROCESS CONTROL IN CHEMICAL ENGINEERING (SER-8160910);* 30 MONTHS $16,931

COLLEGE AT BROCKPORT

SCHLECHT, KENNETH D; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026152);* 12 MONTHS $13,191

GEER, IRA W; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100987);* 12 MONTHS $35,651

COLLEGE AT BUFFALO

KINSEY, THOMAS G; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8025103);* 10 MONTHS $17,552

ZINGARO, JOSEPH S; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101043);* 12 MONTHS $13,404

KINSEY, THOMAS G; *COMPUTER SIMULATIONS IN INTRODUCTORY AND NON-MAJOR ENVIRONMENTAL SCIENCE COURSES (SER-8161087);* 30 MONTHS $26,270

COLLEGE AT FREDONIA

BOWSER, JAMES R; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025681);* 12 MONTHS $6,600

BOWSER, JAMES R; *IMPROVEMENT OF THE ANALYTICAL CHEMISTRY CURRICULUM (SER-8163832);* 24 MONTHS $12,914

COLLEGE AT GENESEO

HERLIHY, JOHN G; *IMPROVING SCIENCE AND SOCIAL SCIENCE EDUCATION FOR HANDICAPPED CHILDREN IN THE MIDDLE GRADES (SER-8160339);* 20 MONTHS $25,313

LOUGEAY, RAY; *IMPROVED TEACHING OF REMOTELY SENSED IMAGE INTERPRETATION (SER-8160802);* 30 MONTHS $15,615

COLLEGE AT NEW PALTZ

MCBRIDE, RICHARD E; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101056);* 12 MONTHS $8,329

COLLEGE AT ONEONTA

BAUMANN, PAUL R; *THREE COMPUTERIZED MODELS FOR TEACHING SPATIAL ORGANIZATION IN GEOGRAPHY COURSES (SER-8160611);* 30 MONTHS $26,370

COLLEGE AT POTSDAM

HORST, G ROY; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026200);* 12 MONTHS $10,846

COLLEGE OF MOUNT ST VINCENT

CARDILLO, FRANCES M; *COMPUTER ACQUISITION AND ANALYSIS OF PHYSIOLOGICAL DATA (SER-8160677);* 30 MONTHS $18,907

MALLOZZI, JOHN S; *DEVELOPMENT OF AN INTEGRATED JUNIOR/SENIOR LEVEL GENERAL EDUCATION COURSE: MIND/MACHINE (SER-8160963);* 30 MONTHS $18,581

COLUMBIA UNIVERSITY

SACHS, ALLAN M; *STUDENT SCIENCE TRAINING (SPI-8024410);* 20 MONTHS $48,080

BROWNSTEIN, BONNIE; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101617);* 18 MONTHS $42,755

MACAGNO, EDUARDO R; *PROJECT LABORATORY IN NEUROBIOLOGICAL TECHNIQUES (SER-8162461);* 24 MONTHS $19,264

CONSUMER COMMISS ON ACCRED OF HLTH SERVS INC

RUBIN, DONALD; *A CONSUMER HEALTH POLICY INFORMATION AND RESOURCE CENTER FOR NEW YORK CITY (OSS-7923391 A01);* 6 MONTHS $52,672

HYMAN, HERBERT; *A CONSUMER HEALTH POLICY INFORMATION AND *RESOURCE CENTER FOR NEW YORK CITY (ISP-8118573*);* 24 MONTHS $102,333

COOPER UNION

EFE, YUSUF Z; *DEVELOPMENT OF TWO NEW SELF-PACED AUDIO-VISUAL-SUPPORTED MICROPROCESSOR COURSES (SER-8161022);* 30 MONTHS $30,000

CORNELL UNIVERSITY

GOLDSTEIN, MELVIN J; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025916);* 12 MONTHS $22,000

HEISER, JOHN B; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101269);* 12 MONTHS $20,786

CORRADINO, ROBERT A; *A CELLULAR PHYSIOLOGY COURSE FOR UNDERGRADUATES (SER-8163361);* 24 MONTHS $18,100

PORTER, RICHARD F; *HIGH PERFORMANCE LIQUID CHROMATOGRAPHS FOR INTEGRATED UNDERGRADUATE INSTRUCTION (SER-8163362);* 24 MONTHS $16,120

KIM, MYUNGHWAN; *A MODERN BIOPHYSICAL INSTRUMENTATION LABORATORY FOR ELECTRICAL ENGINEERING STUDENTS (SER-8163365);* 24 MONTHS $19,380

CORNELL UNIVERSITY-CORNELL UNIVERSITY - ENDOWED

NELKIN, DOROTHY; *WORKERS, VALUES AND TECHNOLOGICAL RISKS (ISP-8112990);* 27 MONTHS $198,927

EDUCATIONAL BROADCASTING CORPORATION

THOMAS, RICHARD; *A PUBLIC TELEVISION SERIES ABOUT BRAIN RESEARCH (SSS-7917905 A01);* 24 MONTHS $100,000

EDUCATIONAL FUND FOR INDIVIDUAL RIGHTS INC

WESTIN, ALAN F; *ETHICAL DILEMMAS OF SCIENTISTS AND ENGINEERS IN REGULATED INDUSTRIES (SSP-8107013);* 15 MONTHS $114,912

GENERAL ELECTRIC COMPANY-GENERAL ELECTRIC-ELECTRONICS LABORATORY

POWELL, NOBLE R; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160231)*; 18 MONTHS $12,500

GENERAL ELECTRIC COMPANY-RESEARCH AND DEVELOPMENT CENTER

AFTERGUT, SIEGFRIED; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160232)*; 18 MONTHS $10,000

SPANG, H A; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160233)*; 18 MONTHS $17,500

GRUMMAN CORPORATION-GRUMMAN AEROSPACE CORPORATION

SCHEUING, RICHARD A; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160213)*; 18 MONTHS $30,000

HAMILTON COLLEGE

KNOP, LARRY E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026139)*; 12 MONTHS $6,370

HOFSTRA UNIVERSITY

GOLDSTEIN, STANLEY P; *IMPROVEMENT IN KNOWLEDGE OF COMPRESSIBLE FLOW BY ENGINEERING STUDENTS THROUGH EXPERIMENTATION USING A SUPERSONIC WIND TUNNEL (SER-8162803)*; 24 MONTHS $19,355

HOUGHTON COLLEGE

MUNRO, DONALD W; *IMPROVEMENT OF MICROSCOPY IN ADVANCED UNDERGRADUATE BIOLOGY COURSES (SER-8162806)*; 24 MONTHS $9,794

HUNTER COLLEGE

LAVALLEE, DAVID K; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026308)*; 12 MONTHS $21,210

NIMAN, JOHN; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100880)*; 12 MONTHS $40,087

WESSELKAMPER, THOMAS C; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8160135)*; 28 MONTHS $99,803

INDIVIDUAL AWARD

CASSELL, ERIC J; *SUSTAINED DEVELOPMENT AWARD (29P-8018086 A01)*; 12 MONTHS $18,250

FESSENDEN-RADEN, JUNE M; *ETHICAL ISSUES IN LABORATORY HEALTH AND SAFETY (29P-8114331)*; 24 MONTHS $23,197

ANDERSON, ROBERT J; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165001)*; 42 MONTHS $16,282

KAMINSKY, KENNETH S; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165017)*; 41 MONTHS $28,122

MARSHALL, CHARLES D; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165021)*; 42 MONTHS $28,560

PIETROPAOLO, PATRICIA; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165023)*; 41 MONTHS $8,371

WYSOLMERSKI, THERESA; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165046)*; 42 MONTHS $12,634

LICHTER, ROBERT L; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165053)*; 42 MONTHS $28,800

GRANOVETTER, MARK S; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165055)*; 42 MONTHS $28,890

YOUDA, CORINNE G; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165060)*; 42 MONTHS $13,733

ZAPISEK, WILLIAM F; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165064)*; 42 MONTHS $22,777

RAPS, SHIRLEY; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165091)*; 37 MONTHS $4,500

INSTITUTE OF SOCIETY ETHICS AND LIFE SCIENCES

GAYLIN, WILLARD, AND BAYER, RONALD; *ETHICAL ISSUES IN THE USE OF OCCUPATIONAL HEALTH TECHNOLOGIES (29P-8107018)*; 24 MONTHS $88,370

INTERNATIONAL BUSINESS MACHINES CORPORATION-T J WATSON RESEARCH CENTER

PYTTE, ERLING; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160222)*; 18 MONTHS $20,000

ITHACA COLLEGE

WODZINSKI, RICHARD S; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026342)*; 12 MONTHS $8,928

SPENCER, CHARLES D; *COURSE DEVELOPMENT FOR A COMBINATION PHYSICS-COMPUTING MAJOR (SER-8160690)*; 30 MONTHS $20,750

LEHMAN COLLEGE

GILLESPIE, JOHN R; *PROGRAM IN MEDICAL PHYSICS (SER-8161081)*; 30 MONTHS $25,865

LONG ISLAND UNIVERSITY-BROOKLYN CENTER

ZAVITSAS, ANDREAS A; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-7910148 A02)*; 15 MONTHS $2,880

GROSS, STEPHEN M; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010736 A01)*; 27 MONTHS $3,840

LONG, MADELEINE J; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100567)*; 12 MONTHS $50,000

GROSS, STEPHEN M; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8160008)*; 42 MONTHS $47,400

MANHATTAN COLLEGE

PALMER, RICHARD E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026334)*; 12 MONTHS $11,766

MCNAMARA, JOHN B; *MICROCOMPUTER LABORATORY PROJECT (SER-8162422)*; 24 MONTHS $19,265

MARIST COLLEGE

MENAPACE, LAWRENCE W; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024752)*; 10 MONTHS $25,383

MARITIME COLLEGE

ZUBALY, ROBERT; *CONSTRUCTION OF A 'MINI' SHIP MODEL TOWING TANK (SER-8162293)*; 24 MONTHS $20,000

MEDGAR EVERS COLLEGE

OLSEN, HENRY D; *COMPUTER MANAGED INSTRUCTION FOR INTRODUCTION TO SOCIOLOGY COURSE (SER-8160826)*; 30 MONTHS $30,000

MERCY COLLEGE

PERELLE, IRA B; *DEVELOPMENT OF IMPROVED COURSE IN PSYCHOLOGY OF ANIMAL BEHAVIOR (SER-8161019)*; 30 MONTHS $18,056

MOHAWK VALLEY COMMUNITY COLLEGE

HESELTON, LEON W; *COMMUNICATIONS ELECTRONICS LABORATORY UPDATE (SER-8162096)*; 24 MONTHS $10,875

MOUNT ST MARY COLLEGE

LESSOR, EDITH S; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100920)*; 12 MONTHS $22,458

NASSAU COMMUNITY COLLEGE

MEYER, ROCHELLE W; *TEACHING PASCAL LANGUAGE USING APPLE II PLUS MICROCOMPUTERS (SER-8162097)*; 24 MONTHS $20,000

NAZARETH COLLEGE OF ROCHESTER

LANG, THERESE; *NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY IN THE UNDERGRADUATE CHEMISTRY CURRICULUM (SER-8162197)*; 24 MONTHS $10,880

NEW YORK ACADEMY OF SCIENCES

BROWNSTEIN, BONNIE; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8026479)*; 10 MONTHS $24,307

BROWNSTEIN, BONNIE; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101616)*; 18 MONTHS $40,384

NEW YORK BOTANICAL GARDEN-CAREY ARBORETUM

DYKEMAN, PETER A; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024972)*; 10 MONTHS $16,500

NEW YORK UNIVERSITY

TUTTLETON, LESLIE C; *SUNRISE SEMESTER: A TELEVISED COURSE ON ENERGY INVOLVING SCHOOLS OF CONTINUING EDUCATION (SED-8019314)*; 21 MONTHS $383,568

WASOW, BERNARD; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026300)*; 12 MONTHS $20,805

AARONSON, DORIS; *COMPUTER EDUCATION FOR THE VISUALLY IMPAIRED (SER-8162643)*; 24 MONTHS $12,590

NEW YORK ZOOLOGICAL SOCIETY

BERKOVITS, ANNETTE; *WILDLIFE INQUIRY THROUGH ZOO EDUCATION (WIZE) (SED-8030410)*; 18 MONTHS $175,333

BERKOVITS, ANNETTE; *THE ZOO AS A RESOURCE: AN INFORMATION EXCHANGE IN ENVIRONMENTAL EDUCATION (SER-8160314)*; 15 MONTHS $26,560

POLYTECHNIC INSTITUTE OF NEW YORK

BULKIN, BERNARD J; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8005657 A02)*; 12 MONTHS $13,115

ZELDIN, MARTEL; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026346)*; 12 MONTHS $19,152

KRAMER, PAMELA E; *MINORITY WOMEN IN SCIENCE AND ENGINEERING CAREERS COUNSELING NETWORK (SER-8160408)*; 12 MONTHS $49,997

QUEENS COLLEGE

WHITE, PHILIP; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101247)*; 12 MONTHS $50,000

NEWMAN, CLAIRE M; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101337)*; 18 MONTHS $34,500

WAXMAN, JERRY; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101358)*; 18 MONTHS $30,873

FREMONT, HERBERT; *ALTERNATIVES FOR SLOW LEARNERS IN SECONDARY SCHOOL MATHEMATICS (SER-8160351)*; 18 MONTHS $28,733

ZEVIN, JACK; *GEOGRAPHY ALTERNATIVES FOR MIDDLE AND SECONDARY SCHOOL SOCIAL STUDIES (SER-8160378)*; 24 MONTHS $29,954

RENSSELAER POLYTECHNIC INSTITUTE

LUCHINS, EDITH H; *IMPROVING SPATIAL SKILLS IN PRE-COLLEGE MATH THROUGH COMPUTER GRAPHICS (29D-8012633 A01)*; 6 MONTHS $4,048

EPPENSTEIN, WALTER; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024796)*; 10 MONTHS $25,485

WOLFE, JOHN K; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026401)*; 12 MONTHS $20,209

MEDICUS, HEINRICH A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026402)*; 12 MONTHS $21,642
KRONER, WALTER M; *DAYLIGHTING AND SOLAR SIMULATION LABORATORY (SER-8162425)*; 24 MONTHS $3,640

ROCKEFELLER UNIVERSITY
SIEKEVITZ, PHILIP; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101914)*; 12 MONTHS $49,333

ST BONAVENTURE UNIVERSITY
HENDRICK, R EDWARD; *IMPROVEMENT OF OBSERVATIONAL EQUIPMENT IN UNDERGRADUATE ASTRONOMY COURSES (SER-8162388)*; 24 MONTHS $3,915

ST LAWRENCE UNIVERSITY
CROWELL, ROBERT M; *SCANNING ELECTRON MICROSCOPY IN UNDERGRADUATE BIOLOGY AND GEOLOGY COURSES (SER-8162201)*; 24 MONTHS $20,000
ELBERTY, WILLIAM T; *SPECIAL PROJECT UNDER ISEP: REFURBISH AND UPDATE EXISTING X-RAY EQUIPMENT FOR UNDERGRADUATE GEOLOGY INSTRUCTION (SER-8162744)*; 24 MONTHS $19,495

STATE UNIVERSITY AT ALBANY
GLAZER, RICHARD B; *AN AUTOMATED FEEDBACK TESTING SYSTEM FOR THE WATER QUALITY MONITORING PROGRAM USING A MICROCOMPUTER (SER-8161077)*; 30 MONTHS $25,000
DUBOWSKY, NATHAN; *DEVELOPMENT OF AN INTERDISCIPLINARY LEARNING MODULE ON THE ORIGIN AND EVOLUTION OF LIFE (SER-8161105)*; 30 MONTHS $16,981

STATE UNIVERSITY AT BINGHAMTON
SHERIDAN, MARY ELLE; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8160168)*; 25 MONTHS $100,000

STATE UNIVERSITY AT BUFFALO
RISING, GERALD R, AND KRIST, BETTY J; *SUNY BUFFALO GIFTED MATH PROGRAM (SPI-8118881)*; 14 MONTHS $29,920

STATE UNIVERSITY AT STONY BROOK
BRAUN, LUDWIG; *DEVELOPMENT OF COMPUTER-BASED LEARNING MODELS IN SECONDARY SCHOOL SCIENCE AND MATHEMATICS (SED-8025176)*; 19 MONTHS $176,225
SILKMAN, RICHARD H; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026316)*; 12 MONTHS $6,530
LIAO, THOMAS T; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101200)*; 12 MONTHS $25,635

STATEN ISLAND COOPERATIVE CONTINUUM OF EDUC
CUSIMANO, VINCENT J; *CONTEMPORARY ISSUES IN SCIENCE (SED-8113600)*; 18 MONTHS $121,820

SYRACUSE UNIVERSITY
MALLAN, JOHN T; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101300)*; 12 MONTHS $34,151
SCHAFER, LARRY E; *PROJECT QUESTIONS AND QUESTS: SCIENCE FOR ELEMENTARY SCHOOL TEACHERS (SER-8160998)*; 30 MONTHS $29,983

TEACHERS COLLEGE
HERTZBERG, HAZEL; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8111768)*; 18 MONTHS $7,955

UNION COLLEGE
SCHADLER, MARGARET H; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8160158)*; 24 MONTHS $19,198

UNIVERSITY OF ROCHESTER
HOLDREN, GEORGE R; *EQUIPMENT FOR QUANTITATIVE STUDIES IN THE ENVIRONMENTAL SCIENCES (SER-8162092)*; 24 MONTHS $19,253

UTICA COLLEGE OF SYRACUSE UNIVERSITY
CHANNER, CHRISTINE; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101231)*; 12 MONTHS $46,793

VASSAR COLLEGE
SUTER, ROBERT B; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025922)*; 12 MONTHS $22,000

YORK COLLEGE
POMILLA, FRANK R; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024375)*; 10 MONTHS $33,428
POMILLA, FRANK R; *CAUSE - COMPUTER ASSISTED INSTRUCTION SUPPORT AND SCIENCE INTERNSHIPS FOR A COMPREHENSIVE IMPROVEMENT IN SCIENCE EDUCATION (SER-8109934)*; 36 MONTHS $249,980

NORTH CAROLINA

APPALACHIAN STATE UNIVERSITY
NICKLIN, ROBERT C; *CAUSE: (SER-8103765)*; 36 MONTHS $240,354
PERRY, MIKE; *STATISTICAL EXPERIENCES FOR UNDERGRADUATES (SER-8161061)*; 30 MONTHS $26,043

ATLANTIC CHRISTIAN COLLEGE
MIELE, WILLIAM H; *INSTRUMENTATION FOR A GENERAL PHYSIOLOGY COURSE (SER-8162249)*; 24 MONTHS $10,585

CENTRAL PIEDMONT COMMUNITY COLLEGE
TREADWELL, N SCOT; *IMPROVEMENT IN COMPUTER ELECTRONICS INSTRUCTION (SER-8162454)*; 24 MONTHS $20,000

DAVIDSON COLLEGE
SCHUH, MERLYN D; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025700)*; 12 MONTHS $3,725

DUKE UNIVERSITY
CRUMBLISS, ALVIN L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026171)*; 12 MONTHS $21,961

DUKE UNIVERSITY-MARINE LABORATORY
TYLER, PAUL A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025665)*; 12 MONTHS $6,600

EAST CAROLINA UNIVERSITY
COBLE, CHARLES R; *SCIENCE FOR THE HANDICAPPED: DISSEMINATION IN SIX SOUTHERN STATES (SER-8160391)*; 24 MONTHS $49,607

FAYETTEVILLE STATE UNIVERSITY
HOLMES, DEFIELD T; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026389)*; 12 MONTHS $13,190

INDIVIDUAL AWARD
MACCORMAC, EARL R; *AN INVESTIGATION OF THE ETHICAL AND VALUE ASPECTS OF THE DEVELOPMENT OF NUCLEAR POWER IN THE CONSTRUCTION OF UTILITY RATES IN NORTH CAROLINA (ISP-8114334)*; 12 MONTHS $12,000
CHEEK, KAROL C; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165006)*; 41 MONTHS $27,444
BURROWS, JOHN W; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165074)*; 42 MONTHS $9,950
SCHUH, MERLYN D; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165081)*; 42 MONTHS $7,341

LIVINGSTONE COLLEGE
CHO, PILL JAY; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026332)*; 12 MONTHS $13,200

NORTH CAROLINA AGRICULTURAL & TECH STATE UNIV
HICKS, ARTHUR J, AND WILLIAMS, JAMES A; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8160004)*; 42 MONTHS $47,400
CHISMAN, ARLINGTON; *ELECTRONICS TECHNOLOGY CURRICULUM IMPROVEMENT (SER-8163945)*; 24 MONTHS $15,720

NORTH CAROLINA CENTRAL UNIVERSITY
TOWNES, MARY M; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010744 A01)*; 27 MONTHS $960
NICHOLS, WOODROW W; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101295)*; 18 MONTHS $25,585
TOWNES, MARY M; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8160002)*; 36 MONTHS $94,800

NORTH CAROLINA SCHOOL OF SCIENCE & MATHEMATICS
DAVIS, CARL S; *COORDINATED USE OF MICROCOMPUTERS IN HIGH SCHOOL CHEMISTRY, PHYSICS, BIOLOGY AND MATHEMATICS (SED-8024473)*; 17 MONTHS $78,857

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH
TROOST, KAY M; *SCHOOL, FAMILY AND INDIVIDUAL INFLUENCES ON COMMITMENT TO AND LEARNING SCIENCE AMONG ADOLESCENT STUDENTS (SED-7919784 A01)*; 6 MONTHS $25,900
JONES, LOUIS A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026253)*; 12 MONTHS $21,982
GARSON, G D; *RESEARCH METHODS INSTRUCTION FOR POLITICAL SCIENCE UNDERGRADUATES (SER-8160630)*; 30 MONTHS $22,632
SAVAGE, ROBERT G; *INTEGRATION OF VIDEOTAPES WITH COMPUTER ASSISTED INSTRUCTION (SER-8162240)*; 24 MONTHS $19,993
FORNARO, ROBERT J; *AN OPERATING SYSTEMS LABORATORY FOR COMPUTER SCIENCE UNDERGRADUATES (SER-8163033)*; 24 MONTHS $20,000

PEMBROKE STATE UNIVERSITY
DARRUDA, JOSE J; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101362)*; 18 MONTHS $22,926

RESEARCH TRIANGLE INSTITUTE
WEISS, IRIS R; *SCIENCE CAREERS FOR WOMEN AND MINORITIES-IN-SERVICE MATERIALS FOR TEACHERS OF GRADES 4-9 (FINAL PHASE) (SED-8114640)*; 20 MONTHS $143,752

STANLY TECHNICAL COLLEGE
COWAN, ROBERT S; *BIOMEDICAL EQUIPMENT TECHNOLOGY CURRICULUM IMPROVEMENT PLAN (SER-8163749)*; 24 MONTHS $8,539

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
ECKERMAN, DAVID A; *EQUIPMENT FOR A LABORATORY IN GENERAL PSYCHOLOGY USING MICROCOMPUTERS (SER-8162530)*; 24 MONTHS $17,360
BROOKS, FREDERICK P; *CONVERSION OF INTRODUCTORY PROGRAMMING FROM BATCH TO INTERACTIVE (SER-8163038)*; 24 MONTHS $20,000
ISENHOUR, THOMAS L; *THE APPLICATION OF DATA ACQUISITION TECHNIQUES TO A SOPHOMORE CHEMISTRY LABORATORY (SER-8163178)*; 24 MONTHS $19,440

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE
INGALLS, GERALD L; *STUDENT SCIENCE TRAINING (SPI-8024995)*; 20 MONTHS $16,942

MOHANTY, G P; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026341)*; 12 MONTHS $15,176
RILLEMA, D PAUL; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101323)*; 12 MONTHS $17,946
PARK, DENISE C, AND MAISTO, ALBERT A; *DEVELOPMENT OF AN UNDERGRADUATE HONORS PROGRAM IN PSYCHOLOGY (SER-8160685)*; 30 MONTHS $16,856
GOOLKASIAN, PAULA; *COMPUTER-BASED LAB FOR RESEARCH METHODOLOGY (SER-8162645)*; 24 MONTHS $16,260

UNIVERSITY OF NORTH CAROLINA AT GREENSBORO

CLEVELAND, GREGOR G; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101188)*; 12 MONTHS $18,851
MUIR, ROBERT B; *MICROCOMPUTERS/INTERFACING FOR SCIENTISTS (SER-8162126)*; 24 MONTHS $5,095
HERMAN, HARVEY B; *TEACHING AID MATERIALS FOR INTRODUCTORY AND SOPHOMORE LEVEL CHEMISTRY COURSES (SER-8162226)*; 24 MONTHS $4,160

UNIVERSITY OF NORTH CAROLINA AT WILMINGTON

LUNDEEN, CARL V; *STUDENT SCIENCE TRAINING (SPI-8024776)*; 10 MONTHS $14,310
MERRITT, JAMES F; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101494)*; 12 MONTHS $20,347

WESTERN CAROLINA UNIVERSITY

YOUMANS, HUBERT L; *STUDENT SCIENCE TRAINING (SPI-8024754)*; 10 MONTHS $14,801
MARTIN, CHARLES J; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101000)*; 12 MONTHS $44,639
WHITE, P G; *METEOROLOGICAL EQUIPMENT FOR UNDERGRADUATE INSTRUCTION (SER-8162527)*; 24 MONTHS $7,874

NORTH DAKOTA

NORTH DAKOTA STATE UNIVERSITY MAIN CAMPUS

EBELING, KENNETH A; *STUDENT SCIENCE TRAINING (SPI-8025120)*; 10 MONTHS $16,373
KOOB, ROBERT D; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026384)*; 12 MONTHS $17,596
NYGARD, KENDALL E; *GRAPHICS AND INTERACTIVE COMPUTING IN OPERATIONS RESEARCH AND STATISTICS (SER-8161095)*; 30 MONTHS $29,720

UNIVERSITY OF NORTH DAKOTA MAIN CAMPUS

KULEVSKY, NORMAN; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025685)*; 12 MONTHS $19,439
DANDO, WILLIAM A; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8103686)*; 18 MONTHS $36,622
WILLIAMS, JOHN A; *DEVELOPMENT OF VISUAL AND TACTILE AIDS FOR TEACHING PHYSICAL ANTHROPOLOGY (SER-8163292)*; 24 MONTHS $7,098

OHIO

BOWLING GREEN STATE UNIVERSITY

CONNER, ROBERT L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025662)*; 12 MONTHS $21,173
VEITCH, RUSSELL; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101257)*; 12 MONTHS $25,706

CAPITAL UNIVERSITY

SHOWALTER, VICTOR M; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101496)*; 12 MONTHS $31,970

CASE WESTERN RESERVE UNIVERSITY

BOULDING, MARGARET E; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106870)*; 17 MONTHS $39,794
STUART, WILLIAM D; *GEOPHYSICAL EQUIPMENT FOR UNDERGRADUATE INSTRUCTION (SER-8163076)*; 24 MONTHS $4,550

CLEVELAND STATE UNIVERSITY

ASHCRAFT, MARK H; *STRUCTURE AND PROCESS IN CHILDREN'S MENTAL ARITHMETIC (SED-8021521)*; 18 MONTHS $47,035
PECHURA, MICHAEL A; *LAB EXPERIMENTS FOR REAL-TIME SYSTEMS AND DATA COMMUNICATIONS (SER-8160857)*; 30 MONTHS $24,313
GORADIA, MANJU G; *USE OF COMPUTERS TO ILLUSTRATE ENGINEERING CONCEPTS (SER-8161007)*; 30 MONTHS $30,000

COLLEGE OF WOOSTER

GAUS, PAUL L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025918)*; 12 MONTHS $10,182

COLUMBIA GAS SYSTEMS SERVICE CORPORATION

ELDER, LOWELL L; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160208)*; 18 MONTHS $5,000
ELDER, LOWELL L; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160209)*; 18 MONTHS $5,000
ELDER, LOWELL L; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160210)*; 18 MONTHS $5,000

CUYAHOGA COMMUNITY COLLEGE-METROPOLITAN CAMPUS

GRAM, FREDRICK P; *A SOLAR ENERGY LABORATORY FOR THE TEACHING OF PHYSICAL SCIENCE (SER-8163098)*; 24 MONTHS $4,600

GLIDDEN-DURKEE DIVISION-SCM CORPORATION

PALLMER, MICHAEL; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160227)*; 18 MONTHS $5,000
PALLMER, MICHAEL; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160228)*; 18 MONTHS $5,000

GOULD INC-GOULD INC GOULD LABORATORIES-OHIO

AQUA, EDWARD N; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160225)*; 18 MONTHS $30,000

HEIDELBERG COLLEGE

KLINE, PHILLIP A; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024729)*; 10 MONTHS $13,279
LILLY, PERCY L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026338)*; 12 MONTHS $6,600

HIRAM COLLEGE

JOHNSON, WENDELL G; *CAUSE - SCIENCE CURRICULUM DEVELOPMENT THROUGH COMPUTER METHODOLOGY (SER-8103964)*; 36 MONTHS $249,900

INDIVIDUAL AWARD

BECK, DORIS J; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165079)*; 42 MONTHS $18,584
POTVIN, WILLIAM J; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165089)*; 42 MONTHS $19,200
SCHUMACHER, GARY M; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165093)*; 42 MONTHS $10,113
GAMBLE, F TREVOR; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165095)*; 42 MONTHS $17,042
ANDREAS, BARBARA K; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165107)*; 38 MONTHS $28,800

JOHN CARROLL UNIVERSITY

SCHWAB, LARRY M; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101453)*; 12 MONTHS $15,420
FRITSCH, KLAUS; *TRAINING UNDERGRADUATE ENGINEERING PHYSICS STUDENTS TO USE THE IEEE INTERFACE BUS (STANDARD 488) FOR TYPICAL APPLICATIONS (SER-8162939)*; 24 MONTHS $15,000

KENT STATE UNIVERSITY

TREICHLER, F ROBERT; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025709)*; 12 MONTHS $21,955
UHRICH, DAVID L; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101047)*; 12 MONTHS $17,231

KENYON COLLEGE

EDWARDS, KATHRYN L; *EQUIPMENT FOR THE PREPARATION OF CELLS FOR ULTRASTRUCTURAL VISUALIZATION AND CYTOCHEMICAL ANALYSES USING TRANSMISSION ELECTRON MICROSCOPY (SER-8163208)*; 24 MONTHS $6,165

MIAMI UNIVERSITY CENTRAL OFFICE

SHERMAN, ROBERT G; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026282)*; 12 MONTHS $19,763

MOUNT UNION COLLEGE

MARTIN, ROY N; *UPGRADING THE COMPUTER SYSTEM TO INCLUDE STATISTICAL PACKAGE FOR SOCIAL SCIENTISTS (SPSS) (SER-8162710)*; 24 MONTHS $13,340

MUSKINGUM COLLEGE

GERLACH, E RUDOLPH; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026210)*; 12 MONTHS $5,524
GRIFFITH, GORDON L; *AN INTERDISCIPLINARY SCIENCE COURSE FOR BASIC EDUCATION (SER-8161050)*; 30 MONTHS $26,615

NOTRE DAME COLLEGE

DECHANT, JEANMARIE; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024945)*; 20 MONTHS $18,910
DECHANT, JEANMARIE; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8160125)*; 24 MONTHS $100,000

OHIO STATE UNIVERSITY

RALLEY, THOMAS G; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024965)*; 20 MONTHS $42,277
RILEY, WILLIAM R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101020)*; 18 MONTHS $29,924
LEITZEL, JAMES R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101367)*; 12 MONTHS $19,611
KNAEBEL, KENT S; *DEVELOPMENT OF A COURSE IN CHEMICAL PROCESS DESIGN BASED ON COMPUTER-GRAPHIC TECHNIQUES (SER-8160969)*; 30 MONTHS $29,800
SRINIVASAN, K; *MICROCOMPUTERS IN MECHANICAL ENGINEERING UNDERGRADUATE EDUCATION (SER-8163696)*; 24 MONTHS $13,075

OHIO UNIVERSITY

PIKAART, LEN; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024583)*; 10 MONTHS $32,613
HOWELL, JOHN N; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026291)*; 12 MONTHS $6,047
PIKAART, LEN; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101156)*; 12 MONTHS $29,530
PIKAART, LEN; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101156 A01)*; 12 MONTHS $948

BLOEMER, H. H. L; *PROPOSAL FOR ENHANCING DIGITAL IMAGE PROCESSING IN UNDERGRADUATE CURRICULUM IN REMOTE SENSING AT OHIO UNIVERSITY (SER-8169835)*; 24 MONTHS $19,750

OHIO WESLEYAN UNIVERSITY

MCQUIGG, ROBERT D; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026385)*; 12 MONTHS $9,981

UNIVERSITY OF AKRON MAIN CAMPUS

MONROE, JOHN B; *CAUSE: VIDEO TAPES FOR MATHEMATICAL REVIEW (SER-8005011 A01)*; 19 MONTHS $7,280

UNIVERSITY OF CINCINNATI

ROLWING, RAYMOND H; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024803)*; 20 MONTHS $18,298

ROLWING, RAYMOND H; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101304)*; 18 MONTHS $26,095

UNIVERSITY OF DAYTON

MINER, GEORGE K; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8005649 A02)*; 12 MONTHS $7,800

JONES, EUGENE E; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024976)*; 10 MONTHS $27,570

WILLIAMS, PATRICK K; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026281)*; 12 MONTHS $22,000

CHERRY, NANCY C; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8160115)*; 23 MONTHS $20,000

UNIVERSITY OF TOLEDO

SCHAFF, JOHN F; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101380)*; 18 MONTHS $26,319

SCHAFF, JOHN F; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106879)*; 17 MONTHS $25,000

FARISON, JAMES B; *SIGNAL SPECTRUM ANALYZER (SER-8162499)*; 24 MONTHS $8,330

WRIGHT STATE UNIVERSITY

GOROWARA, KRISHAN K; *A COMPUTER GRAPHICS LABORATORY (SER-8162113)*; 24 MONTHS $20,000

XAVIER UNIVERSITY

TOEPKER, TERRENCE P; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8023988)*; 10 MONTHS $13,315

YOUNGSTOWN STATE UNIVERSITY

WINO, VINCENT G; *MULTIPLE DISCIPLINE MICROCOMPUTER LABORATORY (SER-8162455)*; 24 MONTHS $14,553

OKLAHOMA

BETHANY-NAZARENE COLLEGE

REINBOLD, PAUL E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026318)*; 12 MONTHS $10,600

LADD, FORREST E; *IMPROVEMENT OF THREE UNDERGRADUATE PSYCHOLOGY COURSES THROUGH THE USE OF MICROCOMPUTERS (SER-8162327)*; 24 MONTHS $2,766

CARL ALBERT JUNIOR COLLEGE

FREY, WALTER; *CAUSE - SCIENCE AND MATHEMATICS INSTRUCTIONAL IMPROVEMENT THROUGH COMPUTER ASSISTED INSTRUCTION (SER-8103997)*; 36 MONTHS $191,591

CLAREMORE JUNIOR COLLEGE

HAGGARD, FLORETTA F; *CAUSE - STRENGTHENING LABORATORIES, FACULTY, AND CURRICULUM IN ENGINEERING/PHYSICS, CHEMISTRY AND BIOLOGY (SER-8103792)*; 24 MONTHS $173,058

INDIVIDUAL AWARD

HERTZLER, DONALD V; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165015)*; 42 MONTHS $21,428

NORTHEASTERN OKLAHOMA STATE UNIVERSITY

WOOLEVER, PATRICIA; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024437)*; 20 MONTHS $12,354

OKLAHOMA STATE UNIVERSITY

RICHARDSON, PAUL E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026175)*; 12 MONTHS $22,000

CLEVELAND, JOSEPH R; *FIBER OPTICS CONCEPTS AND APPLICATIONS (SER-8160818)*; 30 MONTHS $21,775

WOLFE, PHILIP M; *INTERACTIVE PRODUCTION SIMULATOR FOR TEACHING PRODUCTION CONTROL (SER-8160823)*; 30 MONTHS $29,450

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS

RENNER, JOHN W; *SEQUENCING LANGUAGE AND ACTIVITIES IN TEACHING HIGH SCHOOL CHEMISTRY AND PHYSICS (SED-8015814)*; 21 MONTHS $184,726

ESTES, JAMES R; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026433)*; 12 MONTHS $21,472

TIAB, DJEBBAR; *DEVELOPMENT OF NATURAL GAS ENGINEERING COURSE (SER-8161035)*; 30 MONTHS $29,561

RADOVICH, JOHN M; *CLIMBING FILM EVAPORATOR FOR THE CHEMICAL ENGINEERING DESIGN LABORATORY (SER-8162892)*; 24 MONTHS $12,089

UNIVERSITY OF TULSA

LOWE, JOHN S; *CONFERENCE ON NUCLEAR POWER GENERATION (OSS-8016347)*; 9 MONTHS $38,964

OREGON

CHEMEKETA COMMUNITY COLLEGE

GILLETTE, DAVID W; *CAUSE - DEDICATED USE OF MICROCOMPUTERS FOR TECHNICAL/ VOCATIONAL INSTRUCTION (SER-8104775)*; 36 MONTHS $229,744

COLUMBIA EDUCATION CENTER

NELSEN, RALPH T; *ADAPTIVE CURRICULUM TECHNIQUES IN SCIENCE (SPI-8104916)*; 16 MONTHS $49,160

NELSEN, RALPH T; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8160139)*; 15 MONTHS $20,000

NELSEN, RALPH T; *NORTHWEST CONFERENCE ON EXEMPLARY PROGRAMMING IN SOCIAL SCIENCE FOR HIGH ABILITY SECONDARY SCHOOL STUDENTS (SER-8160352)*; 15 MONTHS $29,200

EASTERN OREGON STATE COLLEGE

KERLEY, DAVID E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026259)*; 12 MONTHS $6,596

INDIVIDUAL AWARD

SNOW, MICHAEL D; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165062)*; 42 MONTHS $27,000

LINN BENTON COMMUNITY COLLEGE

RASMUSSEN, STEVE R; *IMPROVING CALCULUS-BASED ENGINEERING PHYSICS LABORATORIES (SER-8163068)*; 24 MONTHS $17,407

MATH LEARNING CENTER

MAIER, EUGENE A; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101607)*; 12 MONTHS $49,969

OREGON GRADUATE CENTER

EROR, NICHOLAS G; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8006026 A02)*; 12 MONTHS $9,811

OREGON INSTITUTE OF TECHNOLOGY

BURKHOLDER, EARL F; *BACHELOR OF SCIENCE DEGREE IN SURVEYING (SER-8160670)*; 30 MONTHS $25,066

OREGON MUSEUM OF SCIENCE AND INDUSTRY

BRECKON, GARRY; *COMPUTER AWARENESS PROJECT (OSS-7817307 A03)*; 12 MONTHS $33,191

HANSEN, BRUCE P; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024955)*; 10 MONTHS $19,282

HANSEN, BRUCE P; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024955 A01)*; 10 MONTHS $5,769

OREGON STATE SYSTEM OF HIGHER EDUCATION-TEACHING RESEARCH

HALADYNA, THOMAS; *CORRELATES OF ATTITUDES TOWARD MATHEMATICS, SCIENCE AND SOCIAL STUDIES (SED-8109982)*; 5 MONTHS $2,359

OREGON STATE UNIVERSITY

LOVELAND, WALTER D; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025853)*; 12 MONTHS $21,434

WILSON, HOWARD L; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100866)*; 12 MONTHS $46,615

PORTLAND STATE UNIVERSITY

FIASCA, MICHAEL A; *EDUCATION MATERIALS ON MOUNT ST HELENS (SED-8020737 A01)*; 6 MONTHS $16,936

HENEGHAN, JAMES M; *LABORATORY EQUIPMENT FOR AN APPLIED ELECTROMAGNETICS COURSE (SER-8162924)*; 24 MONTHS $18,517

DASH, JOHN; *IMPROVEMENT OF ELECTRON MICROSCOPY PROGRAM (SER-8162926)*; 24 MONTHS $20,000

SOUTHERN OREGON STATE COLLEGE

CURRAN, CLAUDE W; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026148)*; 12 MONTHS $12,831

WELTON, RICHARD E; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100869)*; 18 MONTHS $15,380

SOUTHWORTH, DARLENE; *PHASE CONTRAST MICROSCOPY IN DEVELOPMENTAL BIOLOGY AND HONORS BIOLOGY (SER-8162250)*; 24 MONTHS $9,851

UNIVERSITY OF OREGON - EUGENE

SCHAAF, OSCAR F; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-3101427)*; 12 MONTHS $30,000

PENNSYLVANIA

BEAVER COLLEGE

CAMERON, SAMUEL M; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101255)*; 12 MONTHS $33,250

BRYN MAWR COLLEGE

KRONICK, JANE C; *THE PLACEMENT OF RESPONSIBILITY FOR ACCIDENTS: A CASE STUDY OF THE THREE MILE ISLAND INCIDENT (ISP-7925663 A01)*; 12 MONTHS $1,693

ABRAHAM, NEAL B; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026391)*; 12 MONTHS $13,134

RICHMOND, GERALDINE L; *INTRODUCTION OF RAMAN SPECTROSCOPY AND SINGLE PHOTON COUNTING IN ADVANCED LABORATORIES (SER-8163056)*; 24 MONTHS $7,812

BUCKNELL UNIVERSITY

SMITH, MANNING A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026377)*; 12 MONTHS $21,552

CARNEGIE-MELLON UNIVERSITY-CARNEGIE INSTITUTE OF TECHNOLOGY

THOMAS, DONALD E; *CAUSE - INTRODUCING REAL-TIME COMPUTING IN UNDERGRADUATE ENGINEERING LABORATORIES (SER-8103906)*; 36 MONTHS $248,285

COVEY, PRESTON K, FISCHER, GREGORY W, AND LINCOLN, DAVID R; *VALUE ANALYSIS IN SETTING PRIORITIES FOR THE REGULATION OF HAZARDOUS SUBSTANCES (29P-8107019)*; 24 MONTHS $75,540

CARNEGIE-MELLON UNIVERSITY

ANDERSON, JOHN R; *AN INFORMATION PROCESSING ANALYSIS OF LEARNING IN GEOMETRY (IST-8015357*)*; 36 MONTHS $125,000

CHATHAM COLLEGE

KOSTALOS, MARY S; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8160109)*; 26 MONTHS $93,119

CLARION STATE COLLEGE

MECHLING, KENNETH R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101038)*; 18 MONTHS $38,989

TWIEST, GILBERT; *THE DISSEMINATION OF MIDDLE/JUNIOR HIGH SCHOOL ENVIRONMENTAL EDUCATION CURRICULA (SER-8160351)*; 24 MONTHS $29,998

DREXEL UNIVERSITY

COHEN, RICHARD S; *UNDERGRADUATE LABORATORY IMPROVEMENT IN MECHANICAL ENGINEERING (SER-8163295)*; 24 MONTHS $18,762

EDINBORO STATE COLLEGE

SCHNEIDER, MICHAEL C; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101499)*; 12 MONTHS $42,176

SCHNEIDER, MICHAEL C; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101506)*; 12 MONTHS $42,176

GANNON UNIVERSITY

ZAGORSKI, STANLEY J; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101233)*; 18 MONTHS $21,708

HAVERFORD COLLEGE

CHESICK, JOHN P; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026170)*; 12 MONTHS $6,100

INDIVIDUAL AWARD

LAUDAN, LARRY L; *VALUE DISAGREEMENTS AND THEIR RESOLUTION IN SCIENCE AND TECHNOLOGY--AN APPROACH TO THE STUDY OF SCIENCE IN SOCIETY (29P-8114337)*; 12 MONTHS $18,192

CHALFEN, RICHARD M; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165005)*; 41 MONTHS $29,611

FLEISCHMAN, WILLIAM M; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165010)*; 41 MONTHS $21,541

HANYAK, MICHAEL E; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165012)*; 42 MONTHS $17,433

MANGELSDORF, PAUL C; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165020)*; 42 MONTHS $21,708

WEINBERG, ROBERT B; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165028)*; 42 MONTHS $30,075

FAHEY, PAUL F; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165030)*; 42 MONTHS $21,537

RODGERS, GLEN E; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165033)*; 42 MONTHS $16,392

HERZ, JAMES R; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165036)*; 42 MONTHS $28,087

RAKOWSKI, JOHN A; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165041)*; 42 MONTHS $25,640

HAMMONS, JAMES H; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165043)*; 42 MONTHS $19,589

JUNIATA COLLEGE

WAMPLER, DALE L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025947)*; 12 MONTHS $12,200

LA SALLE COLLEGE

HAWLEY, RICHARD; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100978)*; 18 MONTHS $9,626

BENTHIN, MICHAEL E; *INSTRUCTIONAL EQUIPMENT FOR BIOLOGY (SER-8163104)*; 24 MONTHS $3,725

LEBANON VALLEY COLLEGE

FLEISCHMAN, WILLIAM M; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024414)*; 10 MONTHS $26,970

WOLF, PAUL L; *IMPROVEMENT OF LABORATORY EXPERIENCE IN ECOLOGICALLY RELATED FIELDS (SER-8163051)*; 24 MONTHS $17,614

LEHIGH UNIVERSITY

SNYDER, ANDREW K; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024809)*; 10 MONTHS $10,735

EL-AASSER, MOHAMED S; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025698)*; 12 MONTHS $17,600

MANSFIELD STATE COLLEGE

GEORGE, ARNOLD; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101242)*; 12 MONTHS $18,767

PENNSYLVANIA STATE UNIVERSITY

PAINTER, PAUL C; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024988)*; 10 MONTHS $13,595

GARRISON, BARBARA J; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025448)*; 12 MONTHS $21,984

ROY, RUSTUM, AND KNOX, BRUCE E; *EDUCATIONAL MODULES FOR MATERIALS SCIENCE AND ENGINEERING: (EMMSE) (SED-8115089)*; 18 MONTHS $150,000

SHIPPENSBURG STATE COLLEGE

BARR, RICHARD A; *A BIOFLOW CHAMBER FOR UNDERGRADUATE CULTURE EXPERIMENTS (SER-8163052)*; 24 MONTHS $1,417

ST JOSEPH'S UNIVERSITY

CURRAN, DANIEL J; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101234)*; 18 MONTHS $12,217

RASH, AGNES M; *AN ON-LINE CLASSROOM COMPUTING NETWORK (SER-8163053)*; 24 MONTHS $6,148

SWARTHMORE COLLEGE

KLOTZ, EUGENE A; *A COMPUTER GRAPHICS LEARNING ENVIRONMENT FOR HIGH SCHOOL TRIGONOMETRY (39D-8024474)*; 18 MONTHS $49,799

SEIDMAN, LAURENCE S; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026369)*; 12 MONTHS $12,380

TEMPLE UNIVERSITY

MULDAWER, LEONARD; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8005658 A02)*; 12 MONTHS $7,154

KLEINER, ROBERT J; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8025078)*; 10 MONTHS $30,426

SUTMAN, FRANK X; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101155)*; 12 MONTHS $40,989

HINELINE, PHILIP, AND WEINRAUB, MARSHA A; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8104405)*; 17 MONTHS $50,000

GALEY, MINARUTH; *YOU, ME AND TECHNOLOGY: AN INSTRUCTIONAL TV SERIES IN TECHNOLOGY AND SOCIETY FOR SECONDARY SCHOOLS (SED-8115657)*; 12 MONTHS $172,470

UNIVERSITY OF PENNSYLVANIA

FTACLAS, CHRIST; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026370)*; 12 MONTHS $5,720

GERBNER, GEORGE; *THE ROLE OF TELEVISION ENTERTAINMENT IN PUBLIC EDUCATION ABOUT SCIENCE (SED-8112372)*; 24 MONTHS $199,716

UNIVERSITY OF PITTSBURGH-JOHNSTOWN CAMPUS

CARNEY, JOSEPH H; *MICROCOMPUTER DATA ACQUISITION, ANALYSIS AND CONTROL AT THE UNDERGRADUATE LEVEL (SER-8162482)*; 24 MONTHS $2,211

UNIVERSITY OF PITTSBURGH

HARTMAN, RICHARD T; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026618)*; 12 MONTHS $8,796

NOUS, ALBERT P; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100946)*; 12 MONTHS $46,785

COHEN, HENRY B; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101471)*; 12 MONTHS $35,213

CHAMPAGNE, AUDREY B; *RESEARCH ON INSTRUCTION OF PROBLEM-SOLVING SKILLS IN NEWTONIAN MECHANICS (SED-8113392)*; 24 MONTHS $107,380

RESNICK, LAUREN B; *INSTRUCTION BY MAPPING: PROCESSES OF LEARNING MATHEMATICS THROUGH MODELS (SED-8112453)*; 36 MONTHS $149,313

FRIEZE, IRENE H, AND NIZNIK, CAROL A; *WOMEN IN SCIENCE CAREER WORKSHOP PROJECT (SPI-8160164)*; 12 MONTHS $19,941

GODFREY, SUSAN S; *ADDITION OF GENETIC ENGINEERING TECHNOLOGY TO UNDERGRADUATE LABORATORY CURRICULUM (SER-8163166)*; 24 MONTHS $4,342

BAYFIELD, JAMES E; *AN INTRODUCTORY UPPER LEVEL UNDERGRADUATE EXPERIMENTAL PHYSICS COURSE (SER-8163353)*; 24 MONTHS $20,000

UNIVERSITY OF SCRANTON

BEIDLER, JOHN A; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101515)*; 12 MONTHS $11,278

BUCHANAN, JAMES P; *A COMPUTERIZED COGNITIVE PSYCHOLOGY LABORATORY (SER-8162699)*; 24 MONTHS $5,731

VILLANOVA UNIVERSITY

RICE, WILLIAM J; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026189)*; 12 MONTHS $7,537

WIDENER COLLEGE

CHRISTENSEN, MARGARET; *ALGEBRA, BASIC, COMPUTERS (ABC'S) FOR NON-SCIENCE MAJORS (SER-8160911)*; 30 MONTHS $14,755

PUERTO RICO

INTER AMERICAN UNIV OF PR CENTRAL OFFICE-ARECIBO BRANCH

SANCHEZ, ISAAC; *CAUSE - ASSOCIATE DEGREE IN APPLIED SCIENCE IN CHEMICAL TECHNOLOGY (SER-8103756)*; 24 MONTHS $102,550

INTER AMERICAN UNIV OF PR-SAN GERMAN CAMPUS
CAPRILES, VICTOR A; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024986)*; 10 MONTHS $17,676

PONCE SCHOOL OF MEDICINE
GONZALEZ-LIMA, FRANCISCO; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106382)*; 17 MONTHS $27,840

UNIVERSITY OF PUERTO RICO SYSTEM OFFICE-CENTER FOR ENERGY AND ENVIRONMENT RESEARCH
BONNET, JUAN A; *COMMUNITY WORKSHOPS TO CONSIDER PROSPECTS FOR ENERGY SELFSUFFICIENCY ON THE ISLAND OF CULEBRA, PUERTO RICO (OSS-8015824)*; 10 MONTHS $44,375

UNIVERSITY OF PUERTO RICO, MAYAGUEZ
HERNANDEZ-AVILA, MANUEL; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-7910146 A02)*; 15 MONTHS $2,880
RIVERO, ENEIDA; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010732 A01)*; 27 MONTHS $4,800
HERNANDEZ-AVILA, MANUEL; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010749 A01)*; $3,840
ALMODOVAR, LUIS R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100576)*; 12 MONTHS $24,626

UNIVERSITY OF PUERTO RICO, RIO PIEDRAS
ROSSY, CARMEN; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-7910149 A02)*; $2,880
ROSSY, CARMEN; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010739 A01)*; $1,920
ROSSY, CARMEN; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8160001)*; 42 MONTHS $118,500

RHODE ISLAND

BROWN UNIVERSITY
LUSK, JOAN E; *THE DEVELOPMENT OF A BIOCHEMISTRY LABORATORY (SER-8161146)*; 30 MONTHS $28,079
LEHMKUHLE, STEPHEN W; *PHYSIOLOGICAL PSYCHOLOGY LABORATORY (SER-8162673)*; 24 MONTHS $13,398

PROVIDENCE COLLEGE
KRASNER, ROBERT I; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024091)*; 10 MONTHS $12,617

RHODE ISLAND COLLEGE
O'REGAN, PATRICK J; *PROBLEM SOLVING FOR ELEMENTARY AND SECONDARY SCHOOL MATH TEACHERS (SER-8160785)*; 30 MONTHS $27,618

ROGER WILLIAMS COLLEGE
ZIEGERT, JOHN C; *EXPERIMENTAL MECHANICS LABORATORY FOR MECHANICAL ENGINEERING TECHNOLOGY STUDENTS (SER-8163895)*; 24 MONTHS $16,001

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY
CROASDALE, WILLIAM; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024951)*; 20 MONTHS $30,751

UNIVERSITY OF RHODE ISLAND
KIRWAN, DONALD F; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101290)*; 12 MONTHS $25,837
SWANSON, ELIZABETH; *CAUSE - A MODULAR APPROACH TO TEACHING MODERN ANALYTICAL TECHNIQUES IN THE BOTANICAL SCIENCES (SER-8403777)*; 36 MONTHS $249,469
DALY, JAMES C; *FIBER OPTIC LABORATORY IMPROVEMENT (SER-8160633)*; 30 MONTHS $29,003
LAMAGNA, EDMUND A; *A MICROCOMPUTER SYSTEMS AND APPLICATIONS LABORATORY (SER-8162993)*; 24 MONTHS $19,350

SOUTH CAROLINA

CENTRAL WESLEYAN COLLEGE
SCHMUTZ, JAMES L; *INFRARED SPECTROPHOTOMETER FOR CHEMISTRY INSTRUCTION (SER-8162887)*; 24 MONTHS $3,319

CLEMSON UNIVERSITY
MARULLO, NICASIO P; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026422)*; 12 MONTHS $20,604
JARVIS, CHRISTINE W; *INCREASING STUDENT AWARENESS OF PRODUCT ANALYSIS AND EVALUATION IN TEXTILE MANUFACTURING (SER-8163183)*; 24 MONTHS $20,000

COLLEGE OF CHARLESTON
HAYNSWORTH, W HUGH; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024963)*; 10 MONTHS $26,027
PENNINGTON, MAGGIE T; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101063)*; 12 MONTHS $13,916
HAYNSWORTH, W HUGH; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106859)*; 17 MONTHS $26,980

CONVERSE COLLEGE
LAMBERT, SHARON E; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8160108)*; 20 MONTHS $15,945

ERSKINE COLLEGE AND SEMINARY
JUNKIN, WILLIAM F; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024802)*; 10 MONTHS $18,013

FLORENCE-DARLINGTON TECHNICAL COLLEGE
RIDER, GEORGE M; *MICROCOMPUTER TECHNOLOGY TRAINING (SER-8162930)*; 24 MONTHS $19,128

FRANCIS MARION COLLEGE
BRUNK, RICHARD C; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026233)*; 12 MONTHS $6,171

FURMAN UNIVERSITY
ARRINGTON, CHARLES A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026156)*; 12 MONTHS $13,200
KANE-MAGUIRE, NOEL; *QUANTITATIVE ANALYSIS IN CHEMISTRY AND GEOLOGY CURRICULA (SER-8163880)*; 24 MONTHS $14,640

INDIVIDUAL AWARD
WATTS, JAMES F; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165027)*; 42 MONTHS $22,001
GRABEN, HENRY W; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165048)*; 42 MONTHS $30,555

NEWBERRY COLLEGE
BEAM, CHARLES F; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025423)*; 12 MONTHS $4,075

PIEDMONT TECHNICAL COLLEGE
REHG, JAMES A; *PROCESS CONTROL LABORATORY EXERCISES (SER-8163786)*; 24 MONTHS $13,292

UNIV OF SOUTH CAROLINA AT COASTAL CAROLINA
SAXENA, SUBHASH C; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101353)*; 12 MONTHS $22,688

UNIVERSITY OF GEORGIA-SAVANNAH RIVER ECOLOGY LABORATORY
SHARITZ, REBECCA R; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026173)*; 12 MONTHS $15,074
SHARITZ, REBECCA R; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160214)*; 18 MONTHS $25,000

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA
BAYS, CARTER; *CAUSE - A COMPREHENSIVE PROGRAM TO RAISE COMPUTER SCIENCE COMPETENCY THROUGHOUT SOUTH CAROLINA (SER-8104310)*; 15 MONTHS $136,788
WHITE, EDWIN P; *PALMETTO PROJECT II - MIDDLE/J H S SCIENCE (SER-8160325)*; 18 MONTHS $16,511

UNIVERSITY OF SOUTH CAROLINA AT SPARTANBURG
STUART, JEANNE; *IMPROVEMENT OF THE UNDERGRADUATE PHYSIOLOGY LABORATORY (SER-8163754)*; 24 MONTHS $10,273

SOUTH DAKOTA

AUGUSTANA COLLEGE
HANSON, JERRY L; *DIGITAL ELECTRONICS/MICROCOMPUTER LABORATORY (SER-8162906)*; 24 MONTHS $9,560
DIGGINS, MAUREEN; *QUANTITATIVE AND COMPUTER ASSISTED APPROACHES TO PHYSIOLOGY LABORATORIES (SER-8162491)*; 24 MONTHS $11,412

DAKOTA WESLEYAN UNIVERSITY
HOUK, WILLIAM F; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8025110)*; 10 MONTHS $26,682
HILLS, C L; *CAUSE - COMPUTER TECHNOLOGY AND SCIENCE EDUCATION AT DAKOTA WESLEYAN (SER-8103994)*; 36 MONTHS $80,000

INDIVIDUAL AWARD
MOSCA, EUGENE P; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165022)*; 41 MONTHS $20,727

SOUTH DAKOTA STATE UNIVERSITY
BURKE, ROBERT S; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101053)*; 12 MONTHS $30,510

UNIVERSITY OF SOUTH DAKOTA MAIN CAMPUS
EINHELLIG, FRANK A; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100996)*; 18 MONTHS $33,274
METZNER, STEPHEN R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101041)*; 12 MONTHS $41,115

TENNESSEE

CHRISTIAN BROTHERS COLLEGE
DOODY, JOHN E; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8166211)*; 12 MONTHS $9,000

EAST TENNESSEE STATE UNIVERSITY
IKENBERRY, ROY D; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101151)*; 12 MONTHS $22,140

FISK UNIVERSITY
ELLIOTT, I W; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010734 A01)*; 27 MONTHS $1,920
POTTER, THOMAS F; *CAUSE - COMPUTING IN THE UNDERGRADUATE SCIENCE PROGRAM (SER-8103839)*; 36 MONTHS $250,000

MEHARRY MEDICAL COLLEGE
DOLCE, PETER J; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-7910148 A02)*; 15 MONTHS $3,360

DOLCE, PETER J; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8160005)*; 42 MONTHS $142,200

MEMPHIS STATE UNIVERSITY

GIANNANGELO, DUANE M; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100953)*; 12 MONTHS $47,661

MIDDLE TENNESSEE STATE UNIVERSITY

VANDERVORT, THOMAS R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101239)*; 18 MONTHS $12,800

SOUTHWESTERN AT MEMPHIS

GILLIOM, RICHARD D; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026376)*; 12 MONTHS $11,000

TENNESSEE TECHNOLOGICAL UNIVERSITY

SWISHER, GEORGE M; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024800)*; 10 MONTHS $33,200

VENTRICE, CARL A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025943)*; 12 MONTHS $22,000

HEWITT, HUDY C; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026277)*; 12 MONTHS $22,000

WRIGHT, JILL D; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100883)*; 18 MONTHS $26,478

ALEXANDER, CHARLES K; *A PORTABLE DIGITAL LABORATORY IN DESIGN ENGINEERING (SER-8160745)*; 30 MONTHS $30,000

UNIVERSITY OF TENNESSEE AT CHATTANOOGA

TAYLOR, CARYL A; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024971)*; 10 MONTHS $11,607

LYNCH, JOHN A; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026250)*; 12 MONTHS $11,000

GROSS, BENJAMIN H; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101376)*; 12 MONTHS $17,576

UNIVERSITY OF TENNESSEE AT KNOXVILLE

MOSHELL, J M; *HIGH SCHOOL MICROCOMPUTER SCIENCE EDUCATION (SED-7918991 A01)*; 6 MONTHS $38,680

STOLOFF, JUDITH; *IPA MOBILITY ASSIGNMENT (OSS-8016049 A01)*; 10 MONTHS $512

STOLOFF, JUDITH; *IPA MOBILITY ASSIGNMENT (ISP-8016049 A02)*; 1 MONTHS $1,037

FOX, DAVID J; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024997)*; 10 MONTHS $16,230

BULL, WILLIAM E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026178)*; 12 MONTHS $21,152

KITCHEN, HYRAM; *A SYMPOSIUM ON VALUE ISSUES AND ETHICAL QUESTIONS: THE USE OF ANIMALS IN VETERINARY RESEARCH AND EDUCATION (29P-8110738)*; 24 MONTHS $54,351

RIECHERT, SUSAN E; *ACCELERATED STUDY IN HONORS ZOOLOGY (SER-8162865)*; 24 MONTHS $20,000

MOORE, CHARLES F; *UNDERGRADUATE PROCESS DYNAMICS AND CONTROL LABORATORY (SER-8163012)*; 24 MONTHS $19,651

UNIVERSITY OF TENNESSEE AT MARTIN

BLYTHE, ERNEST W; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8023982)*; 10 MONTHS $18,424

HARDING, CHARLES E; *INFRARED SPECTROMETRY IMPROVEMENT PROJECT (SER-8162244)*; 24 MONTHS $9,850

VANDERBILT UNIVERSITY

WILLIAMSON, JOHN W; *AN IMPROVED THERMAL SCIENCE LABORATORY FOR MECHANICAL ENGINEERING (SER-8162470)*; 24 MONTHS $20,000

TEXAS

ABILENE CHRISTIAN UNIVERSITY

POUCHER, WILLIAM B; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101347)*; 12 MONTHS $33,938

EAST TEXAS BAPTIST COLLEGE

CONDRAY, BEN R; *EXPERIMENTAL MODULES FOR INTRODUCTORY CHEMISTRY (SER-8160623)*; 30 MONTHS $15,580

HOUSTON BAPTIST UNIVERSITY

ROGERS, CYNTHIA A; *MATERIALS DEVELOPMENT ON THE CONCEPTS AND APPLICATIONS OF RESEARCH (SER-8160962)*; 30 MONTHS $19,720

INDIVIDUAL AWARD

TSUTSUI, ETHEL A; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165025)*; 41 MONTHS $29,142

HERSH, MONA S; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165102)*; 42 MONTHS $18,913

NAVARRO COLLEGE

ORSAK, CHARLES; *A PROPOSAL TO DESIGN, DEVELOP, IMPLEMENT, TEST, EVALUATE AND DISSEMINATE AN ASSOCIATE DEGREE CURRICULUM TO TRAIN SOLAR ENGINEERING TECHNOLOGISTS-PHASE III (SED-8019527)*; 12 MONTHS $229,380

PAN AMERICAN UNIVERSITY

SANDERS, DELORES R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101469)*; 18 MONTHS $40,937

RICE UNIVERSITY

SINCLAIR, JAMES B; *VERY LARGE SCALE INTEGRATED CIRCUIT DESIGN LABORATORY FACILITIES (SER-8162558)*; 24 MONTHS $17,670

CLARK, HOWARD C; *FIELD STUDIES IN GEOPHYSICS (SER-8162630)*; 24 MONTHS $10,550

ZYGOURAKIS, KYRIACOS; *UNDERGRADUATE LABORATORY WITH COMPUTER FACILITIES FOR INTERACTIVE GRAPHICS, DATA ACQUISITION AND PROCESS CONTROL (SER-8163134)*; 24 MONTHS $20,000

SAM HOUSTON STATE UNIVERSITY

MCNEESE, RICK R; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8025074)*; 10 MONTHS $31,457

WILSON, JACK M; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101430)*; 12 MONTHS $34,330

SOUTHERN METHODIST UNIVERSITY

PALAS, FRANK J; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8023981)*; 10 MONTHS $23,501

PALAS, FRANK J; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101274)*; 18 MONTHS $10,907

SOUTHWEST RESEARCH INSTITUTE

HOFFMAN, HERBERT I; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160219)*; 21 MONTHS $35,000

SOUTHWEST TEXAS STATE UNIVERSITY

DURRETT, H J; *COMPUTER LABORATORY FOR SCIENCE EDUCATORS (SER-8163248)*; 24 MONTHS $20,000

SOUTHWESTERN UNIVERSITY

PURDY, JESSE E; *LEARNING AND COMPUTER EQUIPMENT FOR EXPERIMENTAL PSYCHOLOGY (SER-8162048)*; 24 MONTHS $10,935

ST EDWARD'S UNIVERSITY

LEWIS, JOHN D; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101423)*; 12 MONTHS $20,330

TEXAS A & I UNIVERSITY

GOODE, DWIGHT; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101511)*; 12 MONTHS $13,971

TEXAS A & M UNIVERSITY

SCHROEDER, MELVIN C; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101059)*; 12 MONTHS $48,836

BENJAMIN, LUDY T; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101322)*; 12 MONTHS $21,702

SHOUP, TERRY E; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106422)*; 17 MONTHS $13,271

GRIFFIN, RICHARD B; *DEVELOPMENT OF A SERIES OF CORROSION EXPERIMENTS (SER-8161052)*; 30 MONTHS $28,275

TEXAS CHRISTIAN UNIVERSITY

PAQUET, ANDREW; *TISSUE CULTURE EXERCISES FOR STUDYING CELLULAR IMMUNOLOGY (SER-8162023)*; 24 MONTHS $1,096

TEXAS LUTHERAN COLLEGE

TORGERSON, RICHARD L; *CAUSE - EXAMINING ECOSYSTEM PROCESSES AT A SCIENCE FIELD STATION (SER-8103766)*; 24 MONTHS $100,120

TEXAS SOUTHERN UNIVERSITY

JONES, JOSEPH; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-7910141 A02)*; 15 MONTHS $2,400

JONES, JOSEPH; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010741 A01)*; $2,880

JONES, JOSEPH; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8160014)*; 42 MONTHS $118,500

TEXAS TECH UNIVERSITY

LUTZER, DAVID J, AND STRAUSS, MONTY J; *COMPUTER LITERACY FOR MIDDLE SCHOOL MATHEMATICS TEACHERS (SER-8161006)*; 30 MONTHS $30,000

ALLEY, LEE R; *IMPROVEMENT OF INDUSTRIAL ENGINEERING CURRICULUM WITH MICROPROCESSOR TECHNOLOGY (SER-8161008)*; 30 MONTHS $26,287

TEXAS WOMAN'S UNIVERSITY

WENDEL, CARLTON T; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026302)*; 12 MONTHS $10,797

SMITH, STERLING L; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101297)*; 18 MONTHS $20,895

UNIV OF TEXAS AT ARLINGTON

BELLION, EDWARD; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026355)*; 12 MONTHS $21,206

DIANA, LEONARD M; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026380)*; 12 MONTHS $15,179

BENHAM, ANN; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101324)*; 12 MONTHS $31,603

BENHAM, ANN; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8160156)*; 26 MONTHS $20,000

BENHAM, ANN; *WOMEN IN SCIENCE CAREER FACILITATION PROJECT (SPI-8160160)*; 48 MONTHS $150,000

REINHARTZ, JUDY; *THE IDENTIFICATION AND DISSEMINATION OF INFORMATION AND MATERIALS TO FACILITATE THE INCREASE OF WOMEN AND MINORITIES IN THE SCIENCE AND ENGINEERING PROFESSIONS (SER-8160371)*; 15 MONTHS $30,000

UNIV OF TEXAS AT AUSTIN

BARUFALDI, JAMES P; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8005459 A02)*; $8,092

SPEAR, IRWIN; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024793)*; 11 MONTHS $43,740

BETHEL, LOWELL J; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101150)*; 12 MONTHS $30,402

JURICIC, DAVOR; *INTERACTIVE COMPUTER GRAPHICS IN MECHANICAL ENGINEERING DESIGN (SER-816797)*; 24 MONTHS $20,000

UNIV OF TEXAS AT SAN ANTONIO

OUJESKY, HELEN; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8025073)*; 20 MONTHS $31,286

OUJESKY, HELEN; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106876)*; 17 MONTHS $12,500

UNIVERSITY OF DALLAS

MARTIN, KATHLEEN; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101079)*; 18 MONTHS $12,986

UNIVERSITY OF HOUSTON CENTRAL CAMPUS

HENLEY, ERNEST J; *CURRICULUM ANALYSIS AND STUDENT INTERROGATION AND INFORMATION SYSTEM (SED-7621950 A03)*; 18 MONTHS $56,000

CRESWELL, JOHN L; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100563)*; 18 MONTHS $40,995

SADOWSKI, BARBARA R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101173)*; 12 MONTHS $15,386

HUDSON, H T; *REDUCING DROPOUT FROM THE GENERAL PHYSICS COURSE (SER-8160821)*; 30 MONTHS $11,724

SADOWSKI, BARBARA R; *COMPUTERS IN SCIENCE/MATHEMATICS EDUCATION (SER-8162802)*; 24 MONTHS $6,590

UTAH

BRIGHAM YOUNG UNIVERSITY

MILLER, HAROLD L; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026136)*; 12 MONTHS $6,600

SMITH, IDA, AND HARRISON, KENT; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8160118)*; 25 MONTHS $20,000

CACHE CORPORATION

HIMMELBLAU, DAVID M; *CONTINUING EDUCATION AND COLLEGE INSTRUCTIONAL MODULES IN CHEMICAL ENGINEERING (SED-7913021 A01)*; 6 MONTHS $36,384

HANSEN PLANETARIUM

SONNTAG, MARK S; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8104590)*; 18 MONTHS $14,052

INDIVIDUAL AWARD

STCLAIR, LARRY L; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165086)*; 42 MONTHS $26,082

SOUTHERN UTAH STATE COLLEGE

WHITE, CAROLYNE J; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8107639)*; 17 MONTHS $24,660

UNIVERSITY OF UTAH

DAVIS, E ALLAN; *FIELD CENTER FOR NSF CHAUTAUQUA-TYPE SHORT COURSES (SPI-8006035 A02)*; 12 MONTHS $5,523

RAGSDALE, RONALD O; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024586)*; 10 MONTHS $25,250

JACOBS, HAROLD R; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025671)*; 12 MONTHS $22,000

KUCHAR, KAREL V; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025694)*; 12 MONTHS $4,377

RASMUSSEN, JEWELL J; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100924)*; 18 MONTHS $27,187

UTAH STATE UNIVERSITY

CHENEY, CARL D; *THE UTILIZATION OF RETIRED SCIENTISTS AS ENVIRONMENTAL EDUCATORS IN FORUMS IN CACHE COUNTY, UTAH (OSS-8016329)*; 12 MONTHS $53,888

CANNON, LAWRENCE O; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024974)*; 10 MONTHS $28,943

CORAY, CHRIS S; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100572)*; 12 MONTHS $33,688

ROMESBURG, H. CHARLE; *DEVELOPMENT OF A COURSE IN THE PRINCIPLES OF MATHEMATICAL APPLICATIONS, WITH EMPHASIS ON CLUSTER ANALYSIS (SER-8160606)*; 30 MONTHS $19,678

STILES, GARDINER S; *IMPROVEMENTS TO ELECTRICAL ENERGY CURRICULUM (SER-8162596)*; 24 MONTHS $16,962

HOLDREDGE, RUSSELL M; *IMPROVEMENT OF COMPUTER AIDED DESIGN LABORATORY (SER-8162680)*; 24 MONTHS $19,600

WICAT INC

BUNDERSON, C VICTOR; *AN INTELLIGENT VIDEODISC SYSTEM: EVALUATION IN DEVELOPMENTAL BIOLOGY (SED-7900794 A02*)*; 6 MONTHS $37,627

VERMONT

INDIVIDUAL AWARD

TYZBIR, ROBERT ST; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165146)*; 42 MONTHS $15,195

JOHNSON STATE COLLEGE

HINKLE, ROBERT D; *STUDENT SCIENCE TRAINING (SPI-8025161)*; 10 MONTHS $15,926

UNIVERSITY OF VERMONT

BROWN, DAVID B; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025645)*; 12 MONTHS $17,442

VIRGIN ISLANDS

COLLEGE OF THE VIRGIN ISLANDS

MACLEAN, WILLIAM P; *CAUSE- IMPROVED MARINE SCIENCE CURRICULA - ACCESS TO THE SEA (SER-8103928)*; 36 MONTHS $249,597

VIRGINIA

HAMPTON INSTITUTE

GARRISON, HAZEL J; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-7910151 A02)*; 15 MONTHS $960

GARRISON, HAZEL J; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100953)*; 12 MONTHS $31,524

GARRISON, HAZEL J; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8160010)*; 42 MONTHS $71,100

HUMAN RESOURCES RESEARCH ORGANIZATION

HUNTER, BEVERLY; *COMPUTER LITERACY GUIDES FOR ELEMENTARY AND JUNIOR HIGH SCHOOLS (SED-7923684 A01)*; $9,700

INDIVIDUAL AWARD

VACHINO, RINALDO; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165040)*; 42 MONTHS $28,844

MCGHEE, GRADY N; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165042)*; 42 MONTHS $7,512

ELKINS, JUDITH M; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165090)*; 42 MONTHS $15,250

JAMES MADISON UNIVERSITY

GARRISON, NORMAN E; *PREPARATIVE ULTRACENTRIFUGE FOR UNDERGRADUATE CURRICULUM IMPROVEMENT (SER-8163198)*; 24 MONTHS $19,500

KAPPA SYSTEMS INC

YOCUM, JAMES; *DATA PROCESSING SERVICES TO SUPPORT FY 1981 PROPOSAL PROCESSING ACTIVITIES IN THE SCIENCE EDUCATION DIRECTORATE (SER-7819643 A03)*; 12 MONTHS $92,440

MC GURRIN, JIM; *DEVELOP AND IMPLEMENT COMPUTER PROGRAMS FOR THE CAPTURE OF DATA ON CAUSE PROPOSALS (SER-7819643 A04)*; $3,219

MARINE SCIENCE CONSORTIUM

KELLER, EDWARD C; *STUDENT SCIENCE TRAINING PROGRAM (SPI-8024768*)*; 10 MONTHS $46,660

KELLER, EDWARD C; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100956)*; 12 MONTHS $33,762

MARY BALDWIN COLLEGE

ROSSER, SUE V; *SELF-INSTRUCTIONAL MATERIALS, BIOLOGY OF WOMEN (SER-8160817)*; 30 MONTHS $14,612

NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS

KNIGHT, GENEVIEVE M; *INFORMATION DISSEMINATION FOR SCIENCE EDUCATION EQUITY IN MATHEMATICS EDUCATION: A SET OF CONFERENCES (SER-8160399)*; 19 MONTHS $50,000

NORFOLK STATE UNIVERSITY

MOORE, THERON L; *MODULAR INTEGRATED CAI CHEMISTRY CURRICULUM (SER-8160883)*; 30 MONTHS $29,839

OLD DOMINION UNIVERSITY

PROVENZANO, ANTHONY J; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106369)*; 17 MONTHS $49,987

RADFORD UNIVERSITY

BOGGESS, ROBERT K; *EMISSION SPECTROSCOPY IN UNDERGRADUATE LABORATORIES IN CHEMISTRY, GEOLOGY AND PHYSICAL SCIENCE (SER-8162993)*; 24 MONTHS $4,500

RANDOLPH-MACON WOMAN'S COLLEGE

DAHLGARD, MURIEL; *LIQUID CHROMATOGRAPH FOR UNDERGRADUATE CHEMISTRY INSTRUCTION (SER-8162587)*; 24 MONTHS $4,975

UNIVERSITY OF VIRGINIA

GIBSON, JOHN E; *COMPUTER-AIDED DESIGN AND MANUFACTURING CONSORTIUM FOR ENGINEERING EDUCATION (SED-8019647)*; 18 MONTHS $305,925

MURRAY, J JAMES; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026244)*; 12 MONTHS $21,428

VIRGINIA COMMONWEALTH UNIVERSITY

PERLMAN, STEPHEN M; *STUDENT SCIENCE TRAINING (SPI-8024993)*; 20 MONTHS $11,060

MCCOWEN, SARA M; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026337)*; 12 MONTHS $21,937

FARLEY, REUBEN W; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100942)*; 18 MONTHS $16,123

MCCOWEN, SARA M; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106378)*; 17 MONTHS $37,399
KOBOS, ROBERT K; *THE IMPROVEMENT OF LABORATORY INSTRUCTION IN INSTRUMENTAL ANALYSIS (SER-8162212)*; 24 MONTHS $8,794

VIRGINIA MILITARY INSTITUTE

SETTLE, FRANK A; *SCIENTIFIC INSTRUMENTATION INFORMATION NETWORK AND CURRICULA (SED-7919780 A01)*; $23,452
LUDT, ROBERT E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026619)*; 12 MONTHS $13,200
MINNIX, RICHARD B; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101466)*; 12 MONTHS $34,292
CARPENTER, D R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101613)*; 18 MONTHS $24,243

VIRGINIA POLYTECHNIC INSTITUTE

GELLER, E SCOTT; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025866)*; 12 MONTHS $6,599
VIERS, JIMMY W; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026151)*; 12 MONTHS $21,934
JONES, J B; *CAUSE - COMPUTER-AIDED DESIGN FOR UNDERGRADUATES IN ENGINEERING (SER-8103794)*; 36 MONTHS $249,711
STEPHENSON, FREDERICK W; *DEVELOPMENT OF AN EDUCATIONAL PROGRAM IN HYBRID MICROELECTRONICS (SER-8162500)*; 24 MONTHS $18,820

VIRGINIA STATE UNIVERSITY

TOPPIN, EDGAR A; *MINORITY INSTITUTION GRADUATE TRAINEESHIPS (SPI-8010747 A01)*; 27 MONTHS $960
HAMLETT, HUNTER D; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106372)*; 17 MONTHS $23,100

WASHINGTON

BATTELLE MEMORIAL INSTITUTE-BATTELLE NORTHWEST LABORATORIES

HUNGATE, FRANK P; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160230)*; 18 MONTHS $38,400

FOUNDATION FOR GLACIER AND ENVIRONMENTAL RES

MILLER, MAYNARD M; *STUDENT SCIENCE TRAINING (SPI-8024413)*; 10 MONTHS $13,200

GONZAGA UNIVERSITY

HUGHES, DANIEL E; *STUDENT SCIENCE TRAINING (SPI-8024817)*; 10 MONTHS $17,055
FIRKINS, JOHN F; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100969)*; 18 MONTHS $11,475

INDIVIDUAL AWARD

PIERSON, BEVERLY K; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165037)*; 42 MONTHS $14,073

LOWER COLUMBIA COLLEGE

BENJAMIN, CLINTON L; *EQUIPMENT TO IMPROVE AN UNDERGRADUATE PHYSIOLOGY COURSE (SER-8162657)*; 24 MONTHS $3,997

MERCER ISLAND SCHOOL DISTRICT

MINSTRELL, JAMES A; *IDENTIFICATION OF FACTORS INFLUENCING CHANGE IN CONCEPTUAL UNDERSTANDING OF SCIENCE (SED-8113590)*; 25 MONTHS $43,274

METROCENTER YMCA

BOLES, JOHN; *SCIENTISTS/CITIZENS ORGANIZED ON POLICY ISSUES (OSS-7923387 A01)*; 12 MONTHS $53,364
HUME, JARLATH, AND BOLES, JOHN; *SCOPI PROJECT: SCIENTISTS/CITIZENS ORGANIZED ON POLICY ISSUES (ISP-7923387 A02)*; 12 MONTHS $81,728
HUME, JARLATH, AND BOLES, JOHN; *SCOPI PROJECT: SCIENTISTS/CITIZENS ORGANIZED ON POLICY ISSUES (ISP-7923387 A03)*; 12 MONTHS $44,500

PACIFIC LUTHERAN UNIVERSITY

JENSEN, JO ANN S; *WOMEN IN SCIENCE CAREER WORKSHOP (SPI-8160166)*; 15 MONTHS $20,000

PACIFIC SCIENCE CENTER FOUNDATION

SCHATZ, DENNIS; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100913)*; 18 MONTHS $36,152
MUNSELL, NAN; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101335)*; 12 MONTHS $42,791

UNIVERSITY OF PUGET SOUND

GARDINER, MICHAEL; *AUDIO-VISUAL TRAINING IN LIGHT MICROSCOPY (SER-8160769)*; 30 MONTHS $6,036

UNIVERSITY OF WASHINGTON

LAFFEY, JAMES M; *MATHEMATICS IN BIOLOGY: COMPUTER-CONTROLLED VIDEODISC MATERIALS FOR WOMEN AND MINORITIES (HIGH SCHOOL AND UNDERGRADUATE LEVEL) (SED-8024346)*; 24 MONTHS $117,400
BAKER, D JAMES; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025932)*; 12 MONTHS $19,584
WOODS, STEPHEN C; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026247)*; 12 MONTHS $6,535
MCDERMOTT, LILLIAN C; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101518)*; 18 MONTHS $43,175
MCDERMOTT, LILLIAN C; *AN EMPIRICAL INVESTIGATION OF STUDENT KNOWLEDGE IN INTRODUCTORY PHYSICS (SED-8112924)*; 36 MONTHS $220,600
MCDERMOTT, LILLIAN C; *PREPARATION FOR UNDERGRADUATE PHYSICAL SCIENCES THROUGH CONCEPT-BASED MODULES (SED-8116017)*; 15 MONTHS $101,390
WALKER, RICHARD B; *POPULATION SIMULATIONS AND MODELING EXPERIENCE IN GENERAL BIOLOGY (SER-8163009)*; 24 MONTHS $9,980

WASHINGTON STATE UNIVERSITY

POSHUSTA, RONALD D; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026245)*; 12 MONTHS $10,576
ORLICH, DONALD C; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101716)*; 12 MONTHS $11,762
ORLICH, DONALD C; *WASHINGTON STATE IMMERSION PROJECT: SCIENCE FOR HANDICAPPED (SER-8160361)*; 24 MONTHS $48,083
SORENSEN, HAROLD C; *TEACHING STATICS BY THE AUDIO-TUTORIAL METHOD (SER-8160646)*; 30 MONTHS $29,948
KENDALL, L ALDEN; *VIDEO AND SELF-PACED INSTRUCTION AIDS FOR A CAD/CAM CURRICULUM (SER-8160455)*; 30 MONTHS $10,085

WESTERN WASHINGTON UNIVERSITY

CHRISTMAN, ROBERT A; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101001)*; 12 MONTHS $13,625

WEYERHAEUSER COMPANY

FOLSTER, HARRY G; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160223)*; 18 MONTHS $5,000
FOLSTER, HARRY G; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160224)*; 18 MONTHS $10,000

WHATCOM COMMUNITY COLLEGE

WEBBER, SUE S; *EQUIPMENT FOR IMPROVEMENT OF INTRODUCTORY BIOLOGY LABORATORY (SER-8162788)*; 24 MONTHS $5,219

WEST VIRGINIA

BETHANY COLLEGE

KOVACS, ARTHUR 2; *CAUSE - EFFECTIVE COMPUTER UTILIZATION IN UNDERGRADUATE SCIENCE EDUCATION (SER-8103935)*; 36 MONTHS $250,000
LARSON, GARY E; *EQUIPMENT FOR THE STUDY OF PLANT GROWTH (SER-8163114)*; 24 MONTHS $9,877

INDIVIDUAL AWARD

LOUDIN, WILMA J; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165139)*; 42 MONTHS $23,892

WEST VIRGINIA INSTITUTE OF TECHNOLOGY

DAVID, JOHN P; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8100871)*; 18 MONTHS $33,753

WEST VIRGINIA UNIVERSITY

ARYA, ATAM P; *STUDENT SCIENCE TRAINING (SPI-8025116)*; 10 MONTHS $32,415
ALLEN, ROBERT D; *RESEARCH ON CHANGES IN INTELLECTUAL DEVELOPMENT AND CRITICAL THINKING ABILITY (SED-8026487)*; 13 MONTHS $50,107
JOHNSON, ALONZO F; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101195)*; 12 MONTHS $23,410
ALLEN, ROBERT D; *SOURCE BOOKS FOR A GENERAL BIOLOGY PROGRAM (SER-8161076)*; 30 MONTHS $25,605

WISCONSIN

BELOIT COLLEGE

WAY, J EDSON; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026434)*; 12 MONTHS $12,931
JUNGCK, JOHN R; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101450)*; 12 MONTHS $35,872
JUNGCK, JOHN R; *DEVELOPMENT OF A COMPREHENSIVE, CONTEMPORARY MICROBIOLOGY LABORATORY (SER-8163340)*; 24 MONTHS $20,000

BELOIT CORPORATION

WEDEL, GREGORY L; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160230)*; 18 MONTHS $10,000

CARTHAGE COLLEGE

MALESKE, ROBERT T; *CAUSE - THE COMPREHENSIVE INTEGRATION OF COMPUTER-RELATED INSTRUCTION INTO THE CARTHAGE COLLEGE SCIENCE CURRICULUM (SER-8103805)*; 36 MONTHS $222,025

INDIVIDUAL AWARD

DAUB, EDWARD E; *PUBLIC SERVICE SCIENCE RESIDENCY (OSS-8016363 A01)*; $6,125
BRANDENBERGER, JOHN R; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165002)*; 42 MONTHS $16,320
KARL, JOHN H; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165013)*; 41 MONTHS $29,346
NELSON, GEORGE H; *FY 81 SCIENCE FACULTY PROFESSIONAL DEVELOPMENT PROGRAM (SPI-8165039)*; 42 MONTHS $21,600

LAWRENCE UNIVERSITY
BRANDENBERGER, JOHN R; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8025690)*; 12 MONTHS $4,000

MARQUETTE UNIVERSITY
RYAN, MICHAEL D; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026385)*; 12 MONTHS $13,191
MOYER, JOHN C; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101330)*; 12 MONTHS $30,290

MILWAUKEE PUBLIC MUSEUM
WEST, ROBERT M; *MUSEUM EXHIBIT ON THE EARTH'S STRUCTURE AND HISTORY (OSS-8006393 A01)*; 12 MONTHS $146,375

NELSON INDUSTRIES INC
ERIKSSON, LARRY J; *INDUSTRIAL RESEARCH PARTICIPATION (SPI-8160217)*; 18 MONTHS $10,000

NORTHLAND COLLEGE
MAXWELL, ROBERT K; *ANALYTICAL INSTRUMENTATION FOR ENVIRONMENTAL STUDIES (SER-8163369)*; 24 MONTHS $9,003

RACINE UNIFIED SCHOOL DISTRICT
KASTENSCHMIDT, WALTER R; *A HIGH SCHOOL COURSE INTEGRATING STATISTICS AND COMPUTER PROGRAMMING (SED-8024212)*; 12 MONTHS $31,623

RIPON COLLEGE
QUILTER, JEFFREY; *IMPROVEMENT OF FIELD WORK OPPORTUNITIES IN ARCHAEOLOGY (SER-8163579)*; 24 MONTHS $868

UNIVERSITY OF WISCONSIN-MADISON
FENNEMA, ELIZABETH; *RESEARCH ON RELATIONSHIP OF SPATIAL VISUALIZATION AND CONFIDENCE TO MALE/FEMALE MATHEMATICS ACHIEVEMENT IN GRADES 6-8 (SED-7817330 A02)*; 6 MONTHS $30,732
STEWART, JAMES H; *HIGH SCHOOL STUDENTS' GENETICS PROBLEM-SOLVING STRATEGIES AND KNOWLEDGE (SED-8022913)*; 27 MONTHS $116,598
PENROD, STEVEN; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026140)*; 12 MONTHS $5,828
FENNEMA, ELIZABETH; *CLASSROOM PROCESSES, SEX DIFFERENCES, AND AUTONOMOUS LEARNING BEHAVIORS IN MATHEMATICS (SED-8109077)*; 18 MONTHS $197,640
CLOUGH, FRED W; *COMPUTER ASSISTED INSTRUCTION IN ORGANIC CHEMISTRY (SER-8160711)*; 30 MONTHS $25,974
CAVANAUGH, CLIFTON C; *INTEGRATING MICROCOMPUTERS INTO SCIENCE CURRICULUM (SER-8162644)*; 12 MONTHS $4,418

UNIVERSITY OF WISCONSIN-OSHKOSH
MCKEE, JAMES W; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026364)*; 12 MONTHS $3,804
VOILS, DON L; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101336)*; 12 MONTHS $37,552
VOILS, DON L; *INTRODUCTION TO MICROCOMPUTERS IN MATHEMATICS AND SCIENCE (SER-8160374)*; 12 MONTHS $24,747
KARL, JOHN H; *BASIC ELECTRICAL METHODS IN GEOPHYSICS (SER-8163397)*; 24 MONTHS $9,374

UNIVERSITY OF WISCONSIN-STEVENS POINT
WILKE, RICHARD J; *CENTRAL WISCONSIN SOLID WASTE MANAGEMENT FORUMS (ISP-8016354 A01)*; 9 MONTHS $2,250
SZCZYTKO, STANLEY; *INCORPORATION OF LABORATORY EXPERIENCES IN WATER RESOURCES STUDY (SER-8163681)*; 24 MONTHS $16,028

UNIVERSITY OF WISCONSIN-SUPERIOR
ROUBAL, RONALD K; *STUDENT SCIENCE TRAINING (SPI-8024407)*; 10 MONTHS $19,926
VAISHNAV, DINESH D; *RESEARCH APPRENTICESHIPS FOR MINORITY HIGH SCHOOL STUDENTS (SPI-8106856)*; 17 MONTHS $48,200

VITERBO COLLEGE
SAEGROVE, MARCUS; *COURSE DEVELOPMENT IN COMPUTER SCIENCE (SER-8160718)*; 30 MONTHS $30,000

WESTERN WISCONSIN TECHNICAL INSTITUTE
MAAS, ROBERT F; *IMPROVEMENT OF MECHANICAL DESIGN TECHNOLOGY THROUGH COMPUTER-AIDED DESIGN (SER-8163152)*; 24 MONTHS $20,000

WISCONSIN ACADEMY OF SCIENCES ARTS & LETTERS
LEE, LEROY R; *SCIENCE FOR THE PHYSICALLY HANDICAPPED STUDENT (SER-8160375)*; 15 MONTHS $29,200

WYOMING

SHERIDAN COLLEGE
BIRKHOLZ, DICK W; *CAUSE - PREPARATORY BIOLOGY MODULES FOR COMMUNITY COLLEGE STUDENTS (SER-8104811)*; 36 MONTHS $87,742

UNIVERSITY OF WYOMING
BARDEN, ROLAND E; *UNDERGRADUATE RESEARCH PARTICIPATION (SPI-8026376)*; 12 MONTHS $15,032
OLSON, MELFRIED; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101419)*; 18 MONTHS $42,154
OLSON, MELFRIED; *PRE-COLLEGE TEACHER DEVELOPMENT IN SCIENCE (SPI-8101422)*; 12 MONTHS $26,140
MCCORMACK, ALAN J; *DEVELOPMENT AND EVALUATION OF A COURSE FOR PROSPECTIVE MIDDLE SCHOOL SCIENCE TEACHERS (SER-8160734)*; 30 MONTHS $28,958

FELLOWSHIPS

ALABAMA

UNIVERSITY OF ALABAMA IN BIRMINGHAM
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166501)*; 36 MONTHS $1,560

ALASKA

INDIVIDUAL AWARD
FROST, CAROL C; *SUPPORT FOR GRADUATE NSF FELLOWS (SPI-8026436)*; 60 MONTHS $7,720

ARIZONA

ARIZONA STATE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166536)*; 36 MONTHS $8,200

UNIVERSITY OF ARIZONA
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166301*)*; 60 MONTHS $90,200

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166306*)*; 60 MONTHS $385,400

FIELDING INSTITUTE
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166507)*; 36 MONTHS $8,200

HUMBOLDT STATE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166510)*; 60 MONTHS $8,200

RAND GRADUATE INSTITUTE OF POLICY STUDIES
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166395)*; 24 MONTHS $8,200

STANFORD UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166370*)*; 60 MONTHS $1,197,200

UNIVERSITY OF CALIFORNIA, BERKELEY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166307*)*; 60 MONTHS $738,000

UNIVERSITY OF CALIFORNIA, DAVIS
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166308*)*; 60 MONTHS $139,400

UNIVERSITY OF CALIFORNIA, IRVINE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166309*)*; 60 MONTHS $41,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166310*)*; 60 MONTHS $98,400

UNIVERSITY OF CALIFORNIA, RIVERSIDE
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166504)*; 60 MONTHS $24,600

UNIVERSITY OF CALIFORNIA, SAN DIEGO
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166311*)*; 60 MONTHS $254,200

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166312)*; 60 MONTHS $65,600

UNIVERSITY OF CALIFORNIA, SANTA BARBARA
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166313)*; 60 MONTHS $32,800

UNIVERSITY OF CALIFORNIA, SANTA CRUZ
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166314*)*; 60 MONTHS $65,600

UNIVERSITY OF SOUTHERN CALIFORNIA
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166510 A01)*; 36 MONTHS $15,107
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166518)*; 36 MONTHS $16,400

COLORADO

COLORADO STATE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166321*)*; 60 MONTHS $24,600

UNIVERSITY OF COLORADO AT BOULDER
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166322)*; 60 MONTHS $82,000

UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166506)*; 48 MONTHS $8,200

UNIVERSITY OF DENVER
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166327)*; 36 MONTHS $8,200

CONNECTICUT

UNIVERSITY OF CONNECTICUT
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166324)*; 48 MONTHS $16,400

YALE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166419*)*; 60 MONTHS $311,600

DISTRICT OF COLUMBIA

AMERICAN UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166508)*; 48 MONTHS $8,200

GEORGE WASHINGTON UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166332*)*; 60 MONTHS $32,800

GEORGETOWN UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166333*)*; 60 MONTHS $32,800

HOWARD UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166509)*; 60 MONTHS $24,600

NATIONAL ACADEMY OF SCIENCES
HANSING, FRANK D; *APPLICATION EVALUATION SERVICES FOR GRADUATE FELLOWSHIPS AND ACCOMPANYING ANCILLARY SERVICES (SPI-8165512)*; 12 MONTHS $88,420

FLORIDA

FLORIDA STATE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166330*)*; 48 MONTHS $32,800

UNIVERSITY OF FLORIDA
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166331*)*; 60 MONTHS $73,800

UNIVERSITY OF SOUTH FLORIDA
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166517)*; 60 MONTHS $8,200

GEORGIA

GEORGIA INSTITUTE OF TECHNOLGY MAIN CAMPUS
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166334*)*; 60 MONTHS $49,200
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166334 A01)*; 60 MONTHS $8,200

GEORGIA SOUTHERN COLLEGE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166336)*; 60 MONTHS $8,200

GEORGIA STATE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166508)*; 60 MONTHS $480

UNIVERSITY OF GEORGIA
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166335*)*; 60 MONTHS $65,600

IDAHO

UNIVERSITY OF IDAHO
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166339)*; 48 MONTHS $8,200

ILLINOIS

DEPAUL UNIVERSITY
SWEEN, JOYCE A; *THE EVALUATION OF THE NATIONAL SCIENCE FOUNDATION FELLOWSHIP AWARD: AN EXPERIMENTAL REGRESSION APPROACH (SPI-7715053 A04)*; 6 MONTHS $33,963

INDIVIDUAL AWARD
MATTHEWS, PAUL M; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8115408)*; 24 MONTHS $8,200

NORTHWESTERN UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166384*)*; 60 MONTHS $65,600

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166369)*; 60 MONTHS $8,200

UNIVERSITY OF CHICAGO
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166318*)*; 60 MONTHS $328,000

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166340)*; 36 MONTHS $8,200

UNIVERSITY OF ILLINOIS AT URBANA
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166341*)*; 60 MONTHS $221,400

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166529)*; 60 MONTHS $57,400

INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166342)*; 60 MONTHS $8,200

PURDUE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166394*)*; 60 MONTHS $82,000

IOWA

INDIVIDUAL AWARD
REITAN, ERIC A; *SUPPORT FOR NSF GRADUATE FELLOW (SPI-8115402)*; 24 MONTHS $8,200
BROWN, DIA L; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8115406)*; 24 MONTHS $8,200

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166344*)*; 60 MONTHS $49,200

UNIVERSITY OF IOWA
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166524)*; 36 MONTHS $8,200

KANSAS

KANSAS STATE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166346*)*; 60 MONTHS $16,400

UNIVERSITY OF KANSAS MAIN CAMPUS
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166347*)*; 60 MONTHS $32,800

KENTUCKY

UNIVERSITY OF KENTUCKY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166348*)*; 60 MONTHS $16,400

LOUISIANA

LOUISIANA STATE UNIVERSITY MEDICAL CENTER
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166350)*; 48 MONTHS $8,200

LOUISIANA STATE UNIVERSITY SYSTEM OFFICE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166349*)*; 60 MONTHS $16,400

TULANE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166404)*; 60 MONTHS $16,400

MARYLAND

JOHNS HOPKINS UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166345*)*; 60 MONTHS $106,600

UNIVERSITY OF MARYLAND, COLLEGE PARK
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166351*)*; 60 MONTHS $65,600

MASSACHUSETTS

BOSTON UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166303)*; 48 MONTHS $16,820

COLLEGE OF THE HOLY CROSS
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166505)*; 60 MONTHS $8,200

HARVARD UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166337*)*; 60 MONTHS $1,082,400

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166337 A01)*; 60 MONTHS $32,800

INDIVIDUAL AWARD

LUHRMANN, TANYA M; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8115403)*; 24 MONTHS $8,200

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166352*)*; 60 MONTHS $1,361,200

NORTHEASTERN UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166365)*; 36 MONTHS $8,200

TUFTS UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166403)*; 36 MONTHS $8,200

UNIVERSITY OF MASSACHUSETTS, AMHERST

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166353*)*; 60 MONTHS $49,200

MICHIGAN

INDIVIDUAL AWARD

BOYCE, JAMES K; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8115405)*; 24 MONTHS $8,200

MICHIGAN STATE UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166356*)*; 60 MONTHS $131,200

UNIVERSITY OF MICHIGAN-ANN ARBOR

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166357*)*; 60 MONTHS $360,800

MINNESOTA

UNIVERSITY OF MINNESOTA

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166358*)*; 60 MONTHS $188,600

MISSISSIPPI

UNIVERSITY OF MISSISSIPPI-UNIVERSITY OF MISSISSIPPI MEDICAL CENTER

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166359)*; 60 MONTHS $8,200

MISSOURI

ST LOUIS UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166519)*; 60 MONTHS $8,200

UNIVERSITY OF MISSOURI SYSTEM OFFICE

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166360)*; 48 MONTHS $8,200

UNIVERSITY OF MISSOURI, ROLLA

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166361)*; 48 MONTHS $32,800

WASHINGTON UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166412*)*; 60 MONTHS $41,000

MONTANA

UNIVERSITY OF MONTANA

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166362)*; 48 MONTHS $8,200

NEW HAMPSHIRE

DARTMOUTH COLLEGE

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166326)*; 60 MONTHS $16,400

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166363)*; 24 MONTHS $8,200

NEW JERSEY

EDUCATIONAL TESTING SERVICE

GLAUBITZ, J; *GRADUATE RECORD EXAMINATIONS SERVICES FOR THE NATIONAL SCIENCE FOUNDATION GRADUATE AND MINORITY GRADUATE FELLOWSHIP PROGRAMS (SPI-8107886)*; 10 MONTHS $14,383

PRINCETON UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166393*)*; 60 MONTHS $598,600

RUTGERS UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166401)*; 60 MONTHS $8,200

NEW YORK

CITY UNIVERSITY OF NEW YORK SYSTEM OFFICE

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166390*)*; 60 MONTHS $32,800

NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166390 A01)*; 60 MONTHS $16,400

COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166376)*; 48 MONTHS $16,400

COLUMBIA UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166323*)*; 60 MONTHS $172,200

CORNELL UNIVERSITY

ZAKON, HAROLD H; *1980 NSF POSTDOCTORAL FELLOWSHIP (SPI-8016447)*; 36 MONTHS $15,837

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166325*)*; 60 MONTHS $598,600

INDIVIDUAL AWARD

REUTER-LORENZ, PATRICIA; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8115401)*; 24 MONTHS $8,200

CHILDS, EDWARD P; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8115407)*; 24 MONTHS $8,200

NEW YORK UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166364*)*; 60 MONTHS $41,000

RENSSELAER POLYTECHNIC INSTITUTE

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166396)*; 60 MONTHS $16,400

ROCKEFELLER UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166400)*; 60 MONTHS $65,600

STATE UNIVERSITY AT ALBANY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166371*)*; 48 MONTHS $16,400

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166371 A01)*; 48 MONTHS $3,290

STATE UNIVERSITY AT BINGHAMTON

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166372)*; 24 MONTHS $8,200

STATE UNIVERSITY AT BUFFALO

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166373)*; 48 MONTHS $8,200

STATE UNIVERSITY AT STONY BROOK

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166374)*; 36 MONTHS $16,400

SYRACUSE UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166377*)*; 60 MONTHS $24,600

UNIVERSITY OF ROCHESTER

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166399*)*; 60 MONTHS $24,600

YESHIVA UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166420)*; 48 MONTHS $16,400

NORTH CAROLINA

DUKE UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166328)*; 60 MONTHS $65,600

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166514)*; 60 MONTHS $49,200

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166365*)*; 60 MONTHS $147,600

WAKE FOREST UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8019195 A01)*; 36 MONTHS $12,015

OHIO

CASE WESTERN RESERVE UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166316)*; 48 MONTHS $8,200

MIAMI UNIVERSITY CENTRAL OFFICE

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166528)*; 60 MONTHS $8,200

OHIO STATE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166385*);* 60 MONTHS $106,600

UNIVERSITY OF CINCINNATI
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166319*);* 60 MONTHS $16,400

OKLAHOMA

OKLAHOMA STATE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166386);* 60 MONTHS $16,400

UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CENTER
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166387);* 60 MONTHS $8,200

UNIVERSITY OF OKLAHOMA NORMAN CAMPUS
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166388);* 60 MONTHS $8,200

OREGON

INDIVIDUAL AWARD
BOOTH, CAREY L; *SUPPORT FOR NSF GRADUATE FELLOW (SPI-8115404);* 24 MONTHS $8,200

UNIVERSITY OF OREGON - EUGENE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166389);* 48 MONTHS $24,600

PENNSYLVANIA

BUCKNELL UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166305);* 60 MONTHS $8,200

CARNEGIE-MELLON UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166315);* 60 MONTHS $147,600

PENNSYLVANIA STATE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166390);* 60 MONTHS $49,200

TEMPLE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166531);* 60 MONTHS $8,200

UNIVERSITY OF PENNSYLVANIA
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166391*);* 60 MONTHS $131,200

UNIVERSITY OF PITTSBURGH
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166392);* 60 MONTHS $24,600

PUERTO RICO

UNIV OF PUERTO RICO MEDICAL SCIENCES CAMPUS
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166516);* 60 MONTHS $32,800

UNIVERSITY OF PUERTO RICO, RIO PIEDRAS
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166515);* 60 MONTHS $8,200

RHODE ISLAND

BROWN UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166304*);* 60 MONTHS $65,600

UNIVERSITY OF RHODE ISLAND
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166397);* 48 MONTHS $8,200

SOUTH CAROLINA

MEDICAL UNIVERSITY OF SOUTH CAROLINA
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166354);* 36 MONTHS $8,200

UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166368);* 48 MONTHS $8,200

TENNESSEE

MEHARRY MEDICAL COLLEGE
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166512);* 60 MONTHS $8,200

UNIVERSITY OF TENNESSEE AT KNOXVILLE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166378*);* 60 MONTHS $41,000

UNIVERSITY OF TENNESSEE CENTER FOR HEALTH SCI
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166379);* 48 MONTHS $8,200

VANDERBILT UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166407);* 60 MONTHS $32,800

TEXAS

BAYLOR COLLEGE OF MEDICINE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166309);* 12 MONTHS $480

RICE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166398*);* 60 MONTHS $98,400

SAM HOUSTON STATE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166367);* 60 MONTHS $8,200

SUL ROSS STATE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166375);* 60 MONTHS $8,200

TEXAS A & M UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166530);* 60 MONTHS $8,200

TEXAS TECH UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166380*);* 48 MONTHS $16,400

UNIV OF TEXAS AT ARLINGTON
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166520);* 60 MONTHS $24,600

UNIV OF TEXAS AT AUSTIN
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166382*);* 60 MONTHS $123,000

UNIV OF TEXAS HEALTH SCIENCE CENTER AT DALLAS-UNIV OF TEXAS SOUTHWESTERN MEDICAL SCHOOL
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166383);* 60 MONTHS $24,600

UNIV OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166402);* 36 MONTHS $8,200

UNIV OF TEXAS MEDICAL BRANCH AT GALVESTON
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166521);* 60 MONTHS $8,200

UNIVERSITY OF HOUSTON CENTRAL CAMPUS
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166358*);* 60 MONTHS $32,800
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166358 A01);* 60 MONTHS $8,200

UTAH

UNIVERSITY OF UTAH
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166406*);* 60 MONTHS $32,800

UTAH STATE UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166405);* 60 MONTHS $24,600

VERMONT

UNIVERSITY OF VERMONT
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166408);* 48 MONTHS $8,200

VIRGINIA

COLLEGE OF WILLIAM AND MARY
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166416);* 48 MONTHS $8,200

EASTERN VA MED SCH OF THE EASTERN VA MED AUTH
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166529);* 48 MONTHS $8,200

UNIVERSITY OF VIRGINIA
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166410*);* 60 MONTHS $90,200

VIRGINIA COMMONWEALTH UNIVERSITY
NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166522);* 48 MONTHS $8,200

VIRGINIA POLYTECHNIC INSTITUTE
NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166409);* 60 MONTHS $24,600

WASHINGTON

UNIVERSITY OF WASHINGTON

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166414*);* 60 MONTHS $278,800

WASHINGTON STATE UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166413);* 48 MONTHS $8,200

WEST VIRGINIA

WEST VIRGINIA UNIVERSITY

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166415);* 36 MONTHS $8,200

WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166417*);* 60 MONTHS $401,800

UNIVERSITY OF WISCONSIN-MILWAUKEE

NONE, NONE N; *SUPPORT FOR NSF MINORITY GRADUATE FELLOWS (SPI-8166523);* 48 MONTHS $8,200

WYOMING

UNIVERSITY OF WYOMING

NONE, NONE N; *SUPPORT FOR NSF GRADUATE FELLOWS (SPI-8166418);* 60 MONTHS $8,200

SPECIAL FOREIGN CURRENCY

SCIENTIFIC AND TECHNOLOGICAL INFORMATION

INDIA

AMERIND PUBLISHING COMPANY LTD

PRIMLANI, MOHAN; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY) TO TRANSLATE FOREIGN SCIENTIFIC AND TECHNICAL LITERATURE INTO ENGLISH (INT-7104528 A30)*; $600,000

PAKISTAN

MESSRS SAAD PUBLICATIONS

SAAD, GETI; *SPECIAL FOREIGN CURRENCY AWARD (IN PAKISTANI CURRENCY) TO TRANSLATE FOREIGN SCIENTIFIC AND TECHNICAL LITERATURE INTO ENGLISH (INT-6700307 A32*)*; $450,000

SCIENTIFIC RESEARCH

CALIFORNIA

SRI INTERNATIONAL

ABRAHAMSON, G R, AND LINDBERG, H E; *SIMULATION OF STRONG EARTHQUAKE MOTION WITH CONTAINED EXPLOSIVE LINE SOURCE ARRAYS (CEE-7920722 A01*)*; 12 MONTHS $11,629

UNIVERSITY OF CALIFORNIA, BERKELEY

ANGELAKOS, D J, AND SINGH, AMARJIT; *SPECIAL FOREIGN CURRENCY AWARD (INDIAN CURRENCY AND U.S. DOLLARS) FOR STUDY OF SCANNING ELECTRON MICROSCOPY'S APPLICATION TO SEMICONDUCTOR DEVICES (INT-8112115*)*; 36 MONTHS $37,691

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

MACDOUGALL, J DOUGLAS; *SFC AWARD (INDIAN CURRENCY) FOR ISOTOPIC AND CHEMICAL STUDIES OF THE DECCAN PLATEAU (INT-8105600)*; 12 MONTHS $8,501

UNIVERSITY OF CALIFORNIA, SAN DIEGO

REVELLE, ROGER, AND CHATURVEDI, M C; *SFC AWARD (IN INDIAN CURRENCY & U.S. DOLLARS) FOR WORKSHOP ON NON-CONVENTIONAL APPROACHES TO FLOOD MITIGATION; NEW DELHI, INDIA, MARCH 1981 (INT-8106690*)*; 12 MONTHS $46,450

COLORADO

COLORADO STATE UNIVERSITY

HALL, WARREN A; *SFC AWARD (IN INDIAN CURRENCY) FOR GROUP TRAVEL FOR U.S. PARTICIPANTS IN INT'L SYMPOSIUM ON WATER RESOURCES SYSTEMS, UNIV. OF ROORKEE, INDIA, DEC. 20-22,1980 (INT-8021359)*; 6 MONTHS $23,560

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

WHITE, ROBERT M; *OPERATION, MAINTENANCE AND MANAGEMENT OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH AND THE NATIONAL SCIENTIFIC BALLOON FACILITY (ATM-7723757 A32*)*; $188,050

DISTRICT OF COLUMBIA

DEPARTMENT OF STATE

BANYAS, JOSEPH G; *FOREIGN AFFAIRS ADMINISTRATIVE SUPPORT (FAAS) AND DISTRIBUTED ADMINISTRATIVE SUPPORT (DAS) EXPENSES (IST-8021018 A01)*; 12 MONTHS $9,743

EGYPT

AIN SHAMS UNIVERSITY

KOTB, YOUSEF S; *SPECIAL FOREIGN CURRENCY AWARD (IN EGYPTIAN CURRENCY) FOR RESEARCH AND DEVELOPMENT IN SCIENCE EDUCATION (INT-7701338 A04)*; 12 MONTHS $57,040

AMERICAN UNIVERSITY OF CAIRO

ARAFA, SALAH; *SPECIAL FOREIGN CURRENCY AWARD (EGYPTIAN CURRENCY) FOR UTILIZATION OF SOLAR ENERGY AND THE DEVELOPMENT OF AN EGYPTIAN VILLAGE (INT-8109184)*; 24 MONTHS $70,557

ATOMIC ENERGY ESTABLISHMENT

KAMAL, TAYMOUR H, AND JOHNSON, HAROLD D; *SPECIAL FOREIGN CURRENCY AWARD (IN EGYPTIAN CURRENCY) FOR RESEARCH ON BOVINE ADAPTATION TO THE SAHARA (INT-7522294 A03)*; $17,860

CAIRO UNIVERSITY

ABDEL SALAM, OMAR E; *SFC AWARD (IN EGYPTIAN CURRENCY) FOR STUDY OF ELECTROCHEMICAL CONCENTRATION OF SULFUR DIOXIDE IN MOLTEN SALTS (INT-7801472 A02)*; 12 MONTHS $15,543

HILAL, SAYED; *SPECIAL FOREIGN CURRENCY AWARD (IN EGYPTIAN CURRENCY) FOR A BOTANICAL AND CHEMICAL INVESTIGATION OF TOXIC EGYPTIAN TERRESTRIAL AND MARINE WEEDS (INT-7811290 A02)*; 24 MONTHS $57,157

UNIVERSITY OF ALEXANDRIA

YOUNIS, HASSAN; *STUDIES ON INTERNAL STRUCTURE OF ATPASE COMPLEX (INT-7801467 A03)*; 24 MONTHS $48,714

FLORIDA

FLORIDA STATE UNIVERSITY

BURNETT, WILLIAM C; *SFC AWARD (INDIAN CURRENCY) FOR GROUP TRAVEL SUPPORT OF U.S. SCIENTISTS AT THE 4TH INTERNATIONAL GEOLOGICAL CORRELATION PROGRAM WORKSHOP IN INDIA, NOV. 1981 (INT-8114596)*; 12 MONTHS $12,368

ILLINOIS

AMERICAN INSTITUTE OF INDIAN STUDIES

DIMOCK, EDWARD C; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY AND U.S. DOLLARS) FOR RESEARCH SUPPORT OF U.S. SCIENTISTS WORKING IN INDIA (INT-8016982 A01*)*; 12 MONTHS $356,974

INDIA

CENTRAL ELECTRONICS ENGINEERING RES INST

SINGH, AMARJIT, AND ANGELAKOS, D J; *SFC AWARD (IN INDIAN CURRENCY) FOR STUDY OF SCANNING ELECTRON MICROSCOPY'S APPLICATION TO SEMICONDUCTOR DEVICES (INT-8112116)*; 36 MONTHS $132,900

INDIAN INSTITUTE OF TECHNOLOGY, KANPUR

KAR, S; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY) FOR INVESTIGATION OF TRANSPARENT CONDUCTORS FOR APPLICATIONS IN ELECTRONIC DEVICES (INT-8012203)*; 36 MONTHS $114,249

INDIAN INSTITUTE OF TECHNOLOGY, NEW DELHI

SODHA, M S; *SFC AWARD (IN INDIAN CURRENCY) FOR STUDIES IN MAGNETO HYDRO DYNAMICS (INT-8109751)*; 36 MONTHS $109,150

NATIONAL GEOPHYSICAL RESEARCH INSTITUTE

NAQVI, S M; *SFC AWARD (IN INDIAN CURRENCY) FOR STUDIES OF THE PRECAMBRIAN GEOLOGY OF SOUTH INDIA - A SUPPLEMENT (INT-7817128 A01)*; 16 MONTHS $83,848

PHYSICAL RESEARCH LABORATORY

JOHN, P I; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY) FOR INVESTIGATION OF RELATIVISTIC ELECTRON BEAM-PLASMA INTERACTION (INT-8111044)*; 36 MONTHS $387,410

INDIANA

PURDUE UNIVERSITY

SINHA, KUMARES C; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY) FOR A GUEST SCIENTIST FOR THE STUDY OF URBAN TRANSPORTATION SYSTEMS (INT-8016195)*; 12 MONTHS $21,690

MURTHY, S N B; *SFC AWARD (INCLUDING U.S. DOLLARS AND INDIAN CURRENCY) TO SUPPORT U.S. PARTICIPATION AT THE 5TH INT'L SYMPOSIUM ON AIR BREATHING ENGINES, BANGALORE, INDIA, FEB 16-21, 1981 (INT-8019591*)*; 12 MONTHS $43,200

HONIG, J M; *SFC AWARD (IN INDIAN CURRENCY AND U. S. DOLLARS) FOR A WORKSHOP ON PREPARATION AND CHARACTERIZATION OF MATERIALS TO BE HELD IN INDIA IN EARLY 1981 (INT-8023689*)*; 12 MONTHS $49,258

MAINE

TRAVEL AWARD

BORNS, HAROLD W, AND HALL, BRADFORD A; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN CURRENCY) FOR A FIELD CONFERENCE ON INDIAN GEOLOGY, NEW DELHI, INDIA; FEBRUARY, 1981 - A SUPPLEMENT (INT-7922903 A01);* 12 MONTHS $7,694

MARYLAND

UNIVERSITY OF MARYLAND, COLLEGE PARK

HEIKKINEN, HENRY; *SUPPORT FOR SPECIFIC ASPECTS OF THE SIXTH INTERNATIONAL CONFERENCE ON CHEMICAL EDUCATION (1981) (SER-8020646 A01);* $18,480

MASSACHUSETTS

BRANDEIS UNIVERSITY

HALL, JEFFREY C; *SPECIAL FOREIGN CURRENCY AWARD (IN INDIAN RUPEES); PHYSIOLOGICAL AND BIOCHEMICAL ANALYSIS OF NEUROLOGICAL MUTANTS IN DROSOPHILA (INT-8021519);* 6 MONTHS $3,785

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

ELLIOT, JAMES L; *ASTRONOMICAL STUDIES RELATED TO OCCULTATIONS (AST-8010639 A01*);* 5 MONTHS $13,956

TORRIANI, ANNAMARIA; *SFC AWARD (IN INDIAN CURRENCY AND U.S. DOLLARS) FOR STUDIES ON MECHANISM AND CONTROL OF TRANSCRIPTION AND TRANSLATION IN VIVO AND IN VITRO (INT-8016104 A01*);* 12 MONTHS $2,800

MISSOURI

UNIVERSITY OF MISSOURI, ROLLA

PRAKASH, SHAMSHER; *INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN GEOTECHNICAL EARTHQUAKE ENGINEERING AND SOIL DYNAMICS (CEE-8026585*);* 16 MONTHS $15,464

NEW HAMPSHIRE

AMERICAN UNIVERSITIES FIELD STAFF

THOMPSON, JOHN M; *SEMINAR ON FACTORS AFFECTING FOOD PRODUCTION AND DISTRIBUTION IN SELECTED DEVELOPING COUNTRIES (AWARD INCLUDES PAKISTANI CURRENCY) (INT-8017810 A02);* 12 MONTHS $48,567

DARTMOUTH COLLEGE

JOHNSON, NOYE M; *SFC AWARD (PAKISTANI CURRENCY) FOR THE STUDY OF THE UPLIFT HISTORY OF THE KARAKORUM HINDUKUSH RANGES-A SUPPLEMENT (INT-8019373 A01);* 12 MONTHS $74,748

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

MAYEWSKI, PAUL A; *HIMALAYAN PALEOCLIMATE PROGRAM (HIPP) A GLACIOLOGICAL APPROACH (INT-8003175 A01);* 12 MONTHS $2,800

NEW JERSEY

RUTGERS UNIVERSITY

HERBER, ROLFE H; *SFC AWARD (IN INDIAN CURRENCY) TO SUPPORT U.S. PARTICIPANTS AT THE INTERNATIONAL CONFERENCE ON THE MOSSBAUER EFFECT, SRINAGAR, JULY 1981 (INT-8108232);* 6 MONTHS $5,400

NEW MEXICO

UNIVERSITY OF NEW MEXICO

PATHAK, PRAMOD K; *SFC AWARD (IN INDIAN CURRENCY); GUEST SCIENTIST AT THE INDIAN STATISTICAL INSTITUTE, NEW DELHI (INT-8020450);* 12 MONTHS $16,357

MAY, GERALD W; *SFC AWARD (IN INDIAN AND PAKISTANI CURRENCY) FOR SUPPORT OF FOREIGN PARTICIPANTS TO INTERNATIONAL WORKSHOP ON EARTHEN HOUSING IN SEISMIC AREAS (INT-8025908*);* 12 MONTHS $11,800

DORATO, PETER; *SFC AWARD (INDIAN CURRENCY) FOR GROUP TRAVEL FOR U.S. PARTICIPANTS IN THE IFAC SYMPOSIUM ON THEORY AND APPLICATION OF DIGITAL CONTROL, NEW DELHI, JANUARY 1982 (INT-8100150);* 12 MONTHS $37,500

NEW YORK

CORNELL UNIVERSITY

WHARTON, CHARLES B, AND JOHN, P I; *SFC AWARD (INDIAN CURRENCY AND US DOLLARS) FOR INVESTIGATION OF RELATIVISTIC ELECTRON BEAM - PLASMA INTERACTION (INT-8115451*);* 36 MONTHS $24,213

NORTH CAROLINA

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

EL-SHIEKH, ALY H, AND SOLIMAN, HOSNY A; *SPECIAL FOREIGN CURRENCY AWARD (IN EGYPTIAN CURRENCY) FOR STUDY OF ENERGY CONSERVATION TECHNIQUES FOR THE TEXTILE INDUSTRY (INT-7922122 A03);* 12 MONTHS $4,357

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

ROGERS, JOHN J; *PRECAMBRIAN OF SOUTH INDIA (EAR-7905723 A02);* $48,000

OHIO

OHIO STATE UNIVERSITY

RAO, K N; *SFC AWARD (IN INDIAN CURRENCY & U.S. DOLLARS) FOR A WORKSHOP ON HIGH RESOLUTION MOLECULAR SPECTROSCOPY IN INDIA; INDO-U.S. PROG. ON SCI. & TECH.; NEW DELHI, DEC. 11-21, 1981 (INT-8025183*);* 12 MONTHS $31,500

PENNSYLVANIA

DREXEL UNIVERSITY

HERCZFELD, PETER R; *SFC AWARD (IN INDIAN CURRENCY AND U.S. DOLLARS) FOR STUDIES IN MAGNETO HYDRO DYNAMICS (INT-8026034*);* 36 MONTHS $16,725

PENNSYLVANIA STATE UNIVERSITY

PONASH, STEPHEN J, ASHOK, S, AND ROY, RUSTUM; *INVESTIGATION OF TRANSPARENT CONDUCTORS FOR APPLICATIONS IN ELECTRONIC DEVICES (DMR-8010854 A01*);* $9,000

TEXAS

UNIV OF TEXAS AT DALLAS

COLLINS, CARL B; *SFC AWARD (IN INDIAN CURRENCY) TO VISIT INDIA FOR DISCUSSIONS ON A COOPERATIVE RESEARCH PROJECT OR LASER PHOTOLYSIS (INT-8025287);* 12 MONTHS $3,985

UNIV OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON-UNIV OF TEXAS SCHOOL OF PUBLIC HEALTH

GESELL, THOMAS F; *SFC AWARD (IN INDIAN CURRENCY) FOR PARTICIPANT TRAVEL TO THE SECOND SPECIAL SYMPOSIUM ON NATURAL RADIATION ENVIRONMENT, BOMBAY, INDIA, JANUARY 19-23, 1981. (INT-8023953);* 12 MONTHS $54,000

UTAH

UNIVERSITY OF UTAH

HERBST, JOHN A, AND MILLER, JAN D; *SFC AWARD (IN INDIAN CURRENCY & U.S. DOLLARS) FOR A WORKSHOP ON INDO-U.S. COOPERATION IN MINERAL PROCESSING AND CHEMICAL METALLURGY, UDAIPUR, INDIA, DEC. 1981 (INT-8100455*);* 12 MONTHS $87,773

VIRGINIA

INSTITUTE FOR ATMOS OPTICS & REMOTE SENSING

DEEPAK, ADARSH; *SFC AWARD (IN INDIAN CURRENCY) FOR A WORKSHOP ON APPLICATIONS OF REMOTE SENSING FOR RICE PRODUCTION, FALL 1981, HYDERABAD, INDIA (INT-8018606*);* 12 MONTHS $34,108

VIRGINIA POLYTECHNIC INSTITUTE

TROWER, W P; *SFC AWARD (PAKISTANI CURRENCY) FOR BLOCK TRAVEL GRANT FOR U.S. PARTICIPATION IN THE SIXTH INTERNATIONAL SUMMER COLLEGE ON PHYSICS AND CONTEMPORARY NEEDS - JUNE 1981 (INT-8109017*);* 6 MONTHS $30,000

WISCONSIN

UNIVERSITY OF WISCONSIN CENTERS-UNIV OF WIS CENTER-FOX VALLEY

SHARMA, VIRENDRA N; *SFC AWARD (IN FOREIGN CURRENCY); A COMPARATIVE STUDY IN HISTORICAL ASTRONOMY (INT-8016994);* 18 MONTHS $32,690

INTERNATIONAL TRAVEL

ALASKA

TRAVEL AWARD

ELSNER, ROBERT; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) FOR LECTURING AND DEVELOPING COLLABORATIVE RESEARCH, JAWAHARLAL NEHRU UNIV.; NEW DELHI, INDIA; JAN 8-FEB 8, 1981 (INT-8100499);* 6 MONTHS $3,092

ARIZONA

BHATTACHARYA, RABINDRA N; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE INDIAN STATISTICAL INST. CONFERENCE IN HONOR OF PROFESSOR C.R. RAO; NEW DELHI, INDIA; DECEMBER 8-13, 1980 (INT-8023840);* 6 MONTHS $2,529

GANGULY, JIBAMITRA; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) FOR COLLABORATIVE RESEARCH WITH INDIAN GEOLOGISTS (INT-8119057);* 6 MONTHS $2,700

ARKANSAS

SUMMERS, W H; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO WORK AS A VISITING FELLOW AT JAMMU UNIVERSITY; JAMMU, INDIA; JANUARY 4 - FEBRUARY 28, 1981 (INT-8104502);* 6 MONTHS $2,088

CALIFORNIA

LEMMON, RICHARD M; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE IN CHEMICAL BIODYNAMICS; INDIA; JANUARY 1981 (INT-8090959);* 6 MONTHS $2,062

COLES, DONALD; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE FIRST ASIAN CON-*

GRESS OF FLUID MECHANICS; BANGALORE, INDIA; DECEMBER 8-13, 1980 (INT-8020703); 6 MONTHS $2,200

ETZLER, MARILYNN E; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE INT'L SYMPOSIUM ON LECTINS AS TOOLS IN BIOLOGY & MEDICINE; CALCUTTA, INDIA; JANUARY 7 - 9, 1981 (INT-8023629);* 6 MONTHS $2,299

KOBAYASHI, SHIRO; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE 9TH ALL INDIA MACHINE TOOL DESIGN AND RESEARCH CONFERENCE; KANPUR, INDIA; DECEMBER 10 - 13, 1980 (INT-8024176);* 6 MONTHS $2,669

RAGHUPATHY, ESWARAN; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE GOLDEN JUBILEE ANNUAL MEETING OF THE SOC. OF BIOLOGICAL CHEMISTS; BANGALORE, INDIA; 12/14-18/80 (INT-8024179);* 6 MONTHS $2,885

HELLER, H C; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE ON THE CNS THERMOREGULATOR SYSTEMS; NEW DELHI, INDIA; DECEMBER 15 - JANUARY 15, 1981 (INT-8025083);* 6 MONTHS $2,591

PACKER, LESTER; *SPECIAL FOREIGN CURRENCY TRAVEL AWARD (INCLUDING INDIAN CURRENCY) FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM; NEW DELHI, INDIA; JULY 1 - 28, 1981 (INT-8100008);* 6 MONTHS $2,906

KNOWLES, JAMES K; *SFC TRAVEL AWARD (IN INDIAN CURRENCY) TO ATTEND SILVER JUBILEE CONG OF THE INDIAN SOC OF THEORETICAL & APPLIED MECH; KHARAGPUR, INDIA; DECEMBER 17 - 20, 1980 (INT-8100245);* 6 MONTHS $2,591

NAZARETH, JOHN L; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONFER WITH MATHEMATICIANS AT THE TATA INSTITUTE OF FUNDAMENTAL RESEARCH (INT-8110316);* 6 MONTHS $2,986

GEORGE, SIMON; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONFER WITH PHYSICISTS IN INDIA, SEPTEMBER 1981 (INT-8112598);* 6 MONTHS $2,072

UNIVERSITY OF CALIFORNIA, BERKELEY

VARAIYA, PRAVIN P; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-8018014);* 6 MONTHS $2,140

COLORADO

TRAVEL AWARD

MAHANTHAPPA, KALYANA T; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE AT TATA INSTITUTE FOR FUNDAMENTAL RESEARCH, INDIAN INST OF TECH ET AL; INDIA; JULY 4 - AUG 28, 1981 (INT-8112054);* 6 MONTHS $2,872

CONNECTICUT

IYENGAR, SHANTO; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO OFFER SEMINARS IN POLITICAL PSYCHOLOGY AT OSMANIA UNIVERSITY, HYDERABAD, ANDHRA PRADESH, INDIA; AUGUST 1 - 31, 1981 (INT-8108762);* 6 MONTHS $2,298

HANSON, EARL D; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE UNIVERSITY LEADERSHIP PROJ. WORKSHOP ON GENETICS, CYTOLOGY, MICROBIOLOGY AND ECOLOGY; TIRUPATI, INDIA; 6/28 - 7/8, 1981 (INT-8109070);* 6 MONTHS $1,431

DELAWARE

STARK, ROBERT M; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE INTERNATIONAL SYMPOSIUM ON WATER RESOURCE SYSTEMS; ROORKEE, INDIA; DEC 20-22, 1980 (INT-8017649);* 6 MONTHS $2,049

DISTRICT OF COLUMBIA

AHMAD, RAFIQ; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN PAKISTANI CURRENCY) TO PARTICIPATE IN THE 2ND INTERNATIONAL WORKSHOP ON BIOSALINE RESEARCH; LA PAZ, MEXICO; NOV 17-30, 1980 (INT-8017555);* 6 MONTHS $3,300

HOWARD, JAMES D; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO STUDY PRECAMBRIAN TRACE FOSSIL ASSEMBLAGES, INDIA; JANUARY 2 - MARCH 1, 1981 (INT-8024613);* 6 MONTHS $1,600

SYAMALARAO, B C; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PURSUE RESEARCH PROGRAM AT MICHIGAN STATE UNIVERSITY; EAST LANSING MICHIGAN; MAY, 1981 (INT-8101769);* 6 MONTHS $2,700

RASHID, KHALID; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO WORK WITH PROFESSOR W. P. TROWER AT VIRGINIA TECH ON A QUARK ATOM CALCULATION; BLACKSBURG, VA, U.S.A., JUNE 1 - JULY 31, 1981 (INT-8110776);* 6 MONTHS $2,700

FLORIDA

FLORIDA STATE UNIVERSITY

KRISTAMURTI, RUBY; *LABORATORY MODELING OF OCEAN CIRCULATION (OCE-7727939 A02*);* 6 MONTHS $2,758

DEVORE, GEORGE W; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-8017991);* 6 MONTHS $2,283

TRAVEL AWARD

SENGUPTA, SUBRATA; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO DEVELOP A JOINT RESEARCH PROJECT ON NUMERICAL MODELLING IN INDIA; DEC 15-24, 1980 (INT-8016181);* 6 MONTHS $2,461

REED-HILL, R E; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE INTERNATIONAL CONFERENCE ON THERMODYNAMICS & KINETICS OF METALLURGICAL PROCESSES; BANGALORE, INDIA; 7/15-17, 1981 (INT-8112358);* 6 MONTHS $1,554

ILLINOIS

IQBAL, ZAFAR M; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-8017995);* 6 MONTHS $2,261

PENNER, PETER S; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONDUCT A SEMINAR ON ENERGY POLICY CONSIDERATIONS IN A DEVELOPING ECONOMY; BANGALORE, INDIA; OCT 1 - DEC 1, 1980 (INT-8019824);* 6 MONTHS $2,834

WASAN, DARSH T; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE 33RD ANNUAL MEETING OF INDIAN INST. OF ENGINEERS; NEW DELHI, INDIA; DECEMBER 16 - 21, 1980 (INT-8024035);* 6 MONTHS $2,261

DANYLUK, STEVEN S; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE INTERNATIONAL CONFERENCE ON THEORETICAL BIOCHEMISTRY AND BIOPHYSICS; GOA, INDIA; DECEMBER 1 - 12, 1980 (INT-8101764);* 6 MONTHS $2,389

BHARGAVA, HEMENDRA; *SFC TRAVEL SUPPORT TO ATTEND THE INTERNATIONAL CONGRESS OF PHARMACOLOGY SATELLITE SYMPOSIUM ON CURRENT STATUS OF CENTRALLY ACTIVE PEPTIDES; LUCKNOW, INDIA; JULY 15 - 16, 1981 (INT-8109333);* 6 MONTHS $1,921

INDIANA

BASU, MANJU; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE INT'L SYMPOSIUM ON LECTINS AS TOOLS IN BIOLOGY AND MEDICINE; CALCUTTA, INDIA; JANUARY 7-9, 1981 (INT-8022022);* 6 MONTHS $3,009

IQBAL, ZAFAR; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE SECOND CONGRESS OF FEDERATION OF ASIAN & OCEANIAN BIOCHEMISTS; BANGALORE, INDIA; 12/14-12/1980 (INT-8024611);* 6 MONTHS $2,600

OLSON, KENNETH R; *SPECIAL FOREIGN CURRENCY TRAVEL AWARD (INCLUDING INDIAN CURRENCY) FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM; NEW DELHI, INDIA; SEPT. 6- OCT. 17, 1981 (INT-8100009);* 6 MONTHS $1,474

BASU, SUBHASH C; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE INTERNATIONAL SYMPOSIUM ON LECTINS AS TOOLS IN BIOLOGY AND MEDICINE; CALCUTTA, INDIA; JANUARY 7 - 9, 1981 (INT-8103446);* 6 MONTHS $3,009

KANSAS

SMITH, RAYMOND V; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN SEMINARS ON 2-PHASE FLOW AND HISTORY OF TECH. (TECH. ASSESSMENT); INDIA; JANUARY 1 - MARCH 1, 1981 (INT-8024033);* 6 MONTHS $2,589

ECK, JOHN S; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE INT'L CONFERENCE ON MOSSBAUER EFFECT; SRINAGAR, INDIA; JULY 1981 (INT-8108233);* 6 MONTHS $2,891

UNIVERSITY OF KANSAS MEDICAL CENTER

MELNYKOVYCH, GEORGE; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-8018001);* 12 MONTHS $2,228

KENTUCKY

TRAVEL AWARD

NETTLETON, G S; *SPECIAL FOREIGN CURRENCY TRAVEL AWARD (INCLUDING INDIAN CURRENCY) FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM; NEW DELHI, INDIA; MAY 25 - JUNE 7, 1981 (INT-8100010);* 6 MONTHS $2,700

UNIVERSITY OF KENTUCKY

OBERLEAS, DONALD; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-8018002);* 6 MONTHS $2,223

MARYLAND

TRAVEL AWARD

PATI, JOGESH C; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE SYMPOSIUM ON HIGH ENERGY PHYSICS; COCHIN, INDIA; DECEMBER 22 - 29, 1980 (INT-8024037);* 6 MONTHS $2,815

KUNG, SHAIN-DOW; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE 2ND CONGRESS OF THE FEDERATION OF ASIAN & OCEANIAN BIOCHEMISTS; BANGALORE, INDIA; 12/14-18/80 (INT-8024612);* 6 MONTHS $2,402

MOORJANI, KISHIN; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTED THE SRINAGAR, INDIA; JULY - AUGUST 1981 (INT-8112597);* 6 MONTHS $1,518

MASSACHUSETTS

SANADI, D RAO; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-8018005);* 6 MONTHS $2,016

LE QUESNE, PHILIP W; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN PAKISTANI CURRENCY) TO DEVELOP A JOINT RESEARCH PROJECT IN THE AREA OF NATURAL PRODUCTS IN PAKISTAN; KARACHI, PAKISTAN; 11/5-12/80 (INT-8021035);* 6 MONTHS $2,259

TONN, JOAN C; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO STUDY INDIAN HIGHER EDUCATION ORGANIZATION; NEW DELHI, INDIA; DECEMBER 29, 1980 - JANUARY 28, 1981 (INT-8024034);* 6 MONTHS $2,036

CHYLEK, PETR; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONFER WITH INDIAN SCIENTISTS REGARDING ATMOSPHERIC RADIATION, CLIMATE, AND CLIMATE MODELING (INT-8113000);* 6 MONTHS $2,483

MICHIGAN

DEBLER, WALTER R; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN 19TH IAHR CONGRESS - HYDRAULIC ENG FOR IMPROVED WATER RES UTILIZ; NEWDELHI, INDIA; FEB 2-7, 1981 (INT-8017643);* 6 MONTHS $2,203

SKOLIMOWSKI, HENRYK; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE ON PHILOSOPHY OF TECHNOLOGY; MADRAS, INDIA; MARCH - MAY 1981 (INT-8017874);* 6 MONTHS $2,963

TANNENBAUM, ARNOLD S; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE 5TH INT'L CONF. OF THE INT'L ASSOC. FOR CROSS-CULT. PSYCHOLOGY; BHUBANESWAR, INDIA; 12/28-1/1/81 (INT-8025085);* 6 MONTHS $2,438

GOLDSTEIN, IRWIN J; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN A SYMPOSIUM ON LECTINS AS TOOLS IN BIOLOGY & MEDICINE; CALCUTTA, INDIA; JANUARY 7 - 9, 1981 (INT-8025086);* 6 MONTHS $2,341

LESLIE, WILLIAM C; *SPECIAL FOREIGN CURRENCY TRAVEL AWARD (INCLUDING INDIAN CURRENCY) FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM; NEW DELHI, INDIA; MAY 1 - JUNE 29, 1981 (INT-8100015);* 6 MONTHS $2,353

VISWANATHAN, T R; *TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONFER WITH COMPUTER SCIENTISTS AT THE INDIAN INSTITUTE OF TECHNOLOGY, MADRAS (INT-8112351);* 6 MONTHS $2,700

MINNESOTA

BANERJEE, SUBIR K; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN A WORKSHOP ON PRE-CAMBRIAN GEOLOGY OF INDIA; HYDERABAD, INDIA; DECEMBER 15 - 19, 1980 (INT-8020372);* 6 MONTHS $2,523

KHALAFALLA, SANAA E; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND: INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES IN BENEFICIATION & AGGLOMERATION OF MINERALS, BHUBANESWAR, INDIA; JANUARY 81 (INT-8101765);* 6 MONTHS $2,874

MISSOURI

MISSOURI BOTANICAL GARDEN

D'ARCY, WILLIAM G; *PLANT SYSTEMATIC INVESTIGATIONS IN INDIA (INT-8103017);* 6 MONTHS $2,977

TRAVEL AWARD

LONG, GARY J; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE INTERNATIONAL CONFERENCE ON THE APPLICATIONS OF THE MOSSBAUER EFFECT; SRINAGAR, INDIA; JULY 13-17, 1981 (INT-8111834);* 6 MONTHS $1,900

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

VERMA, SHASHI B; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-8018016);* 6 MONTHS $2,353

NEW MEXICO

TRAVEL AWARD

GUNAJI, NARENDRA N; *SFC AWARD (IN INDIAN CURRENCY) TO ATTEND AND PRESENT PAPER AT THE XIX CONGRESS OF INT'L ASSOC. FOR HYDRAULIC RSCH,; NEW DELHI, INDIA; FEBRUARY 2 - 17, 1981 (INT-8100022);* 6 MONTHS $2,258

NEW YORK

BROOKLYN COLLEGE

BHATTACHARJI, SOMDEV; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-8017982);* 6 MONTHS $2,529

CITY COLLEGE

JACOBSON, JEROME; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-8017996);* 12 MONTHS $2,021

SYRACUSE UNIVERSITY

VOOK, RICHARD W; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAMS (INT-8018017);* 6 MONTHS $2,125

TRAVEL AWARD

FINDL, EUGENE; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE SECOND INTERNATIONAL SYMPOSIUM ON INDUSTRIAL & ORIENTED ELECTROCHEM; MADRAS, INDIA; 12/9-13/80 (INT-8018551);* 6 MONTHS $2,540

GOEL, NARENDRA S; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE INT'L CONFERENCE ON THEORETICAL BIOCHEMISTRY & BIOPHYSICS; GOA, INDIA; 11/23-12/22/80 (INT-8021168);* 6 MONTHS $1,350

BUKHARI, AHMAD I; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE IN THE MAHABALESHWAR COURSE IN BIOLOGY; MAHABALESHWAR, INDIA; NOVEMBER 2 - 8, 1980 (INT-8023628);* 6 MONTHS $2,073

SARMA, RAMASWAMY H; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE INT'L CONFERENCE ON THEORETICAL BIOCHEMISTRY & BIOPHYSICS; GOA, INDIA; DECEMBER 3 - 9, 1980 (INT-8024039);* 6 MONTHS $2,532

MYER, YASH P; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE INTERNATIONAL CONFERENCE ON THEORETICAL BIOCHEMISTRY & BIOPHYSICS; GOA, INDIA; DEC. 3 - 9, 1980 (INT-8024178);* 6 MONTHS $2,243

MALPASS, ROY S; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE FIFTH INT'L CONF OF THE INT'L ASSOC FOR CROSS-CULTURAL PSYCHOL; BHUBANESWAR, INDIA; 12/28-1/1/81 (INT-8024623);* 6 MONTHS $3,000

WHARTON, CHARLES B; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO COLLABORATE ON INVESTIGATION OF ION HEATING IN ELECTRON BEAM-PLASMA INTERACTION; AHMEDABAD, INDIA; APRIL, 1981 (INT-8105578);* 6 MONTHS $2,483

RUSTGI, M L; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONFER WITH PHYSICISTS AT KURUKSHETRA UNIVERSITY, INDIA; AUGUST 1 - 30, 1981 (INT-8111291);* 6 MONTHS $1,212

SHARMA, MOTI L; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONDUCT COLLABORATIVE RESEARCH IN FISH-BIOLOGY, D.A.V. COLLEGE, MUZAFFARNAGAR, INDIA; SEPT 1, 1981 - MAY 31, 1982 (INT-8111566);* 6 MONTHS $2,296

MEINERS, HARRY F; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) FOR STUDIES OF SCIENTIFIC EQUIPMENT FOR PHYSICS EDUCATION; JAIPUR, INDIA; AUGUST 10 - 17, 1981 (INT-8113650);* 6 MONTHS $2,700

NORTH CAROLINA

WILLIAMS, JOHN E; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT TO PARTICIPATE IN THE 5TH INT'L CONFERENCE OF THE INT'L ASSOC. FOR CROSSCULTURAL PSYCH.; BHUBANESWAR, INDIA; 12/26/80 - 01/01/81 (INT-8020374);* 6 MONTHS $2,426

CONRAD, HANS; *SPECIAL FOREIGN CURRENCY (IN INDIAN CURRENCY) TO ATTEND THE INTERNATIONAL CONFERENCE ON THERMODYNAMICS AND KINETICS OF METALLURGICAL PROCESS; BANGALORE, INDIA, JULY 15 - 18, 1981 (INT-8112986);* 6 MONTHS $1,408

OHIO

MARK, JAMES E; *TRAVEL TO ATTEND: INTERNATIONAL CONFERENCE ON STRUCTUREPROPERTY RELATIONS OF RUBBER; KHARAGPUR, INDIA; DEC 29-31, 1980 (INT-8017647);* 6 MONTHS $2,219

LATANE, BIBB; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (INDIAN CURRENCY) TO PARTICIPATE IN THE FIFTH INT'L CONF OF THE INT'L ASSOC OF CROSS-CULTURAL PSYCHO; BHUBANESWAR, INDIA; 12/28-01/01/81 (INT-8024618);* 6 MONTHS $2,432

PENNSYLVANIA

PHILADELPHIA COLLEGE OF PHARMACY AND SCIENCE

HEYNER, SUSAN; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-8017993);* 6 MONTHS $2,049

TRAVEL AWARD

PEPITONE, ALBERT; *SFC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE FIFTH INT'L CONFERENCE OF THE INT'L ASSOC. FOR CROSSCULTURAL PSYCHOLOGY; BHUBANESWAR, INDIA; 12/28/80-1/1/81 (INT-8020878);* 6 MONTHS $1,500

RICHARDS, ADRIAN F; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PRESENT AN INVITED LECTURE AT THE FIRST INDIAN CONFERENCE IN OCEAN ENGINEERING; MADRAS, INDIA; FEBRUARY 18-20, 1981 (INT-8021036);* 6 MONTHS $2,247

JAIN, RAKESH K; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE 33RD ANNUAL MEETING OF THE INDIAN INS. OF CHEM. ENG.; NEW DELHI, INDIA; DECEMBER 17 - 20, 1980 (INT-8023626);* 6 MONTHS $2,809

TOMAZINIS, ANTHONY R; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO DELIVER A KEY NOTE PRESENTATION AT THE INT'L CONFERENCE ON TRANSPORTATION; NEW DELHI, INDIA; NOVEMBER 26 - 28, 1980 (INT-8024177);* 6 MONTHS $2,049

AYRES, ROBERT U; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE ON TECHNOLOGICAL CHANGE AND POPULATION; INDIA; DECEMBER 12/15-01/10/81 (INT-8024621);* 6 MONTHS $2,800

WEITZ, CHARLES A; *TRAVEL TO PREPARE A PROPOSAL FOR JOINT RSCH. WITH DEPT'S OF ARCHAEOLOGY & GEOGRAPHY AT UNIVERSITY OF PESHAWAR; PESHAWAR, PAKISTAN; JANUARY 13 - FEBRUARY 8, 1981 (INT-8100598);* 6 MONTHS $1,170

ACKER, THOMAS S; *SPC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN A COOPERATION IN INTERNATIONAL SCIENCE EDUCATION WITH INDIA AND NEPAL; INDIA AND NEPAL; MAY 25 - JUNE 26, 1981 (INT-8105671);* 6 MONTHS $2,850

KRISHNASWAMY, SRINIVASA V; *SPC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO FINALIZE A PROPOSAL FOR COOPERATIVE SCIENCE BETWEEN PSU AND IIT DELHI; NEW DELHI, INDIA; APRIL 3 - 14, 1981 (INT-8105828);* 6 MONTHS $2,700

SCHMIDT, ALFRED O; *SPC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO ATTEND THE FOURTH ISME CONFERENCE ON MECHANICAL ENGINEERING, ROORKEE, INDIA - OCTOBER 19-20, 1981 (INT-8118464);* 6 MONTHS $2,438

RHODE ISLAND

ANDERSON, DOUGLAS D; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE INTERNATIONAL CONFERENCE ON THAI STUDIES; NEW DELHI, INDIA; FEBRUARY 25-27, 1981 (INT-8022194);* 6 MONTHS $2,221

KUSHNER, HAROLD J; *SPECIAL FOREIGN CURRENCY TRAVEL AWARD (INCLUDING INDIAN CURRENCY) FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM; NEW DELHI, INDIA; SEPT. - DEC. 1981 (INT-8100016);* 12 MONTHS $2,700

SOUTH DAKOTA

WHITTEN, RICHARD G; *SPC TRAVEL SUPPORT (IN PAKISTANI CURRENCY) TO FINALIZE ARRANGEMENTS FOR ENROLLMENT OF PAKISTAN NATIONALS IN USD ARCHAEOLOGICAL FIELD SCHOOL; KARACHI, PAKISTAN; 5/15-28/81 (INT-8106201);* 6 MONTHS $2,700

TENNESSEE

VANDERBILT UNIVERSITY

BROQUIST, HARRY P; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-8017984);* 6 MONTHS $2,300

TEXAS

TRAVEL AWARD

MAHAJAN, S M; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE ON TOKAMAK RESEARCH AND PLASMA PHYSICS IN AHMEDABAD, INDIA; DEC 1-14, 1980 (INT-8015994);* 6 MONTHS $2,578

BENGTSON, ROGER D; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO CONDUCT SEMINAR ON TOKAMAK RESEARCH AND PLASMA PHYSICS IN AHMEDABAD, INDIA; DEC 1-14, 1980 (INT-8015995);* 6 MONTHS $2,600

KRISTIANSEN, MAGNE; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE ON PLASMA TECHNOLOGY; AT PHYSICAL RESEARCH LAB; AHMEDABAD, INDIA; DEC 1-14, 1980 (INT-8016002);* 6 MONTHS $2,800

HUSSAIN, AKM FAZLE; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-8017994);* 6 MONTHS $2,385

REESE, LYMON C; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PRESENT KEYNOTE ADDRESS AT FIRST INDIAN CONFERENCE IN OCEAN ENGINEERING; MADRAS, INDIA; FEBRUARY 18-20, 1981 (INT-8020370);* 6 MONTHS $2,737

DALTON, CHARLES; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE FIRST ASIAN CONGRESS ON FLUID MECHANICS; BANGALORE, INDIA; DECEMBER 8 - 13, 1980 (INT-8024040);* 6 MONTHS $2,680

NELSON, PAUL; *SPECIAL FOREIGN CURRENCY TRAVEL AWARD (INCLUDING INDIAN CURRENCY) FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM; NEW DELHI, INDIA; OCT. 17-NOV. 15, 1981 (INT-8100011);* 6 MONTHS $2,785

MAULDIN, R DANIEL; *SPC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO LECTURE AT INDIAN STATISTICAL INSTITUTE-CALCUTTA, CALCUTTA, INDIA; JULY 1 JULY 21, 1981 (INT-8111164);* 6 MONTHS $2,689

UTAH

WEBER, DARRELL J; *SPC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO DISCUSS COOPERATIVE RESEARCH WITH SCIENTISTS AT PANTNAGAR UNIVERSITY (INT-8112058);* 6 MONTHS $2,700

VIRGINIA

DAS, K C; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE INTERNATIONAL SYMPOSIUM ON WATER RESOURCES SYSTEMS; ROORKEE, INDIA; DECEMBER 20-23, 1980 (INT-8019589);* 6 MONTHS $2,727

JENA, PURUSOTTA M; *SPECIAL FOREIGN CURRENCY TRAVEL AWARD (INCLUDING INDIAN CURRENCY) FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM; NEW DELHI, INDIA; JUNE 1 - 15, 1981 (INT-8100018);* 12 MONTHS $2,700

VIRGINIA POLYTECHNIC INSTITUTE

SQUIRES, ARTHUR M; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-8018008);* 12 MONTHS $2,253

WASHINGTON

TRAVEL AWARD

LONNER, WALTER J; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN 5TH INTERNATIONAL MEETING OF INT'L ASSOC FOR CROSS-CULTURAL PSYCHOL; BHUBANESWAR, INDIA; 12/28-1/1/81 (INT-8017643);* 6 MONTHS $2,869

MAGNUSON, JAMES A; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE INT'L SYMPOSIUM ON LECTINS AS TOOLS IN BIOLOGY AND MEDICINE; CALCUTTA, INDIA; JANUARY 1981 (INT-8023021);* 6 MONTHS $2,801

MEADE, ROBERT D; *SPC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE 5TH INT'L CONF OF THE INT'L ASSOCIATION OF CROSS CULTURE PSYCHOLOGY BHUBANESWAR, ORISSA, INDIA; 12/26/80-1/1/81 (INT-8022195);* 6 MONTHS $2,822

FYFE, IAN M; *SPC TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE SILVER JUBILEE CONGRESS OF THE INDIAN SOC. OF THEOR. & APPLIED MECH.; KHARAGPUR, INDIA; DECEMBER 17-20, 1980 (INT-8022841);* 6 MONTHS $2,837

WISCONSIN

MEHLER, ALAN H; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT FOR PARTICIPATION IN THE U.S.-INDIA EXCHANGE OF SCIENTISTS PROGRAM (INT-8018000);* 6 MONTHS $2,241

NAIR, V M G; *SPECIAL FOREIGN CURRENCY TRAVEL SUPPORT (IN INDIAN CURRENCY) TO PARTICIPATE IN THE INDIAN SCIENCE CONGRESS & GOLDEN JUBILEE, MADRAS, INDIA; DEC. 27-30, 1980 & JAN. 1-19, 1981 (INT-8023624);* 6 MONTHS $2,500

FELLOWSHIP AND TRAINEESHIP AWARDS

GRADUATE AND MINORITY GRADUATE FELLOWSHIPS

ALABAMA

University of Alabama
None: Support Award (SPI-8166501); 36 Months $1,560

ARIZONA

Arizona State University
None: Support Award (SPI-8166526); 36 Months $8,200
University of Arizona
None: Support Award (SPI-8166301); 48 Months $90,200

CALIFORNIA

California Institute of Technology
None: Support Award (SPI-8166306); 60 Months $385,400
Fielding Institute
None: Support Award (SPI-8166507); 36 Months $8,200
Humboldt State University
None: Support Award (SPI-8166510); 60 Months $8,200
Rand Graduate Institute
None: Support Award (SPI-8166395); 24 Months $8,200
Stanford University
None: Support Award (SPI-8166370); 60 Months $1,197,200
University of California, Berkeley
None: Support Award (SPI-8166307); 60 Months $728,000
University of California, Davis
None: Support Award (SPI-8166308); 60 Months $139,400
University of California, Irvine
None: Support Award (SPI-8166309); 60 Months $41,000
University of California, Los Angeles
None: Support Award (SPI-8166310); 60 Months $98,40
University of California, Riverside
None: Support Award (SPI-8166504); 60 Months $24,6
University of California, San Diego
None: Support Award (SPI-8166311); 60 Months $254,200
University of California, San Francisco
None: Support Award (SPI-8188312); 60 Months $65,600
University of California, Santa Barbara
None: Support Award (SPI-8166313); 60 Months $32,800
University of California, Santa Cruz
None: Support Award (SPI-8166314); 60 Months $65,600
University of Southern California
None: Support Award (SPI-8166518); 36 Months $16,400
None: Support Award (SPI-8166536); 36 Months $15,107

COLORADO

Colorado State University
None: Support Award (SPI-8166321); 60 Months $24,600
University of Colorado
None: Support Award (SPI-8166322); 60 Months $82,000
University of Colorado, HSC
None: Support Award (SPI-8166506); 48 Months $8,200
University of Denver
None: Support Award (SPI-8166327); 36 Months $8,200

CONNECTICUT

University of Connecticut
None: Support Award (SPI-8166324); 48 Months $16,400
Yale University
None: Support Award (SPI-8166419); 60 Months $311,600

DISTRICT OF COLUMBIA

American University
None: Support Award (SPI-8166502); 48 Months $8,200
Georgetown University
None: Support Award (SPI-8166333); 60 Months $32,800
George Washington University
None: Support Award (SPI-8166332); 60 Months $32,800
Howard University
None: Support Award (SPI-8166509); 60 Months $24,600
National Academy of Sciences
None: Support Award (SPI-8165512); 12 Months $88,420

FLORIDA

Florida State University
None: Support Award (SPI-8166330); 48 Months $32,800
University of Florida
None: Support Award (SPI-8166331); 60 Months $73,800
University of South Florida
None: Support Award (SPI-8166517); 60 Months $8,200

GEORGIA

Georgia Institute of Technology
None: Support Award (SPI-8166334); 60 Months $49,200
None: Support Award (SPI-8166537); 60 Months $8,200
Georgia Southern College
None: Support Award (SPI-8166336); 60 Months $8,200
University of Georgia
None: Support Award (SPI-8166335); 60 Months $65,600
Georgia State University
None: Support Award (SPI-8166508); 60 Months $480

IDAHO

University of Idaho
None: Support Award (SPI-8166339); 48 Months $8,200

ILLINOIS

Northwestern University
None: Support Award (SPI-8166384); 60 Months $65,600
Southern Illinois University
None: Support Award (SPI-8166369); 60 Months $8,200
University of Chicago
None: Support Award (SPI-8166318); 60 Months $328,000
University of Illinois-Chicago Circle
None: Support Award (SPI-8166340); 36 Months $8,200
University of Illinois-Urbana
None: Support Award (SPI-8166341); 60 Months $221,400

INDIANA

Indiana University—Purdue
None: Support Award (SPI-8166342); 60 Months $8,200
Indiana University—Bloomington
None: Support Award (SPI-8166529); 60 Months $57,400
Purdue University
None: Support Award (SPI-8166394); 60 Months $82,000

IOWA

Iowa State University
None: Support Award (SPI-8166344); 60 Months $49,200
University of Iowa
None: Support Award (SPI-8166524); 36 Months $8,200

KANSAS

Kansas State University
None: Support Award (SPI-8166346); 60 Months $16,400

University of Kansas
None: Support Award (SPI-8166347); 60 Months $32,400

KENTUCKY

Univ. of Kentucky
None: Support Award (SPI-8166348); 60 Months $16,400

LOUISIANA

Louisiana State University
None: Support Award (SPI-8166349); 60 Months $16,400
Louisiana State University Medical Center
None: Support Award (SPI-8166350); 48 Months $8,200
Tulane University
None: Support Award (SPI-8166404); 60 Months $16,400

MARYLAND

John Hopkins University
None: Support Award (SPI-8166345); 60 Months $106,600
University of Maryland
None: Support Award (SPI-8166351); 60 Months $65,600

MASSACHUSETTS

Boston University
None: Support Award (SPI-8166303); 48 Months $16,820
Harvard University
None: Support Award (SPI-8166337); 60 Months $1,082,400
None: Support Award (SPI-8166534); 60 Months $32,800
College of the Holy Cross
None: Support Award (SPI-8166505); 60 Months $8,200
Massachusetts Institute of Technology
None: Support Award (SPI-8166352); 60 Months $1,361,200
Northeastern University
None: Support Award (SPI-8166366); 36 Months $8,200
Tufts University
None: Support Award (SPI-8166403); 36 Months $8,200
University of Massachusetts
None: Support Award (SPI-8166353); 60 Months $49,200

MICHIGAN

Michigan State University
None: Support Award (SPI-8166356); 60 Months $131,200
University of Michigan
None: Support Award (SPI-8166357); 60 Months $360,800

MINNESOTA

University of Minnesota
None: Support Award (SPI-8166358); 60 Months $188,600

MISSISSIPPI

University of Mississippi—Medical Center
None: Support Award (SPI-8166359); 60 Months $8,200

MISSOURI

St. Louis University
None: Support Award (SPI-8166519); 60 Months $8,200
University of Missouri—Columbia
None: Support Award (SPI-8166360); 48 Months $8,200
University of Missouri—Rolla
None: Support Award (SPI-8166361); 48 Months $32,800
University of Washington
None: Support Award (SPI-8166412); 60 Months $41,000

MONTANA

University of Montana
None: Support Award (SPI-8166362); 48 Months $8,200

NEW HAMPSHIRE

Dartmouth College
None: Support Award (SPI-8166326); 60 Months $16,400
University of New Hampshire
None: Support Award (SPI-8166363); 24 Months $8,200

NEW JERSEY

Princeton University
None: Support Award (SPI-8166393); 60 Months $598,600
Rutgers State University
None: Support Award (SPI-8166401); 60 Months $8,200
Educational Testing Service
None: Support Award (SPI-8107886); 12 Months $14,383

NEW YORK

City University New York
None: Support Award (SPI-8166320); 60 Months $32,800
None: Support Award(SPI-8166535); 60 Months $16,400
Columbia University
None: Support Award (SPI-8166323); 60 Months $172,200
Cornell University
None: Support Award (SPI-8166325); 60 Months $598,600
New York University
None: Support Award (SPI-8166364); 60 Months $41,000
Rensselaer Polytechnical Institute
None: Support Award (SPI-8166396); 60 Months $16,400
University of Rochester
None: Support Award (SPI-8166399); 60 Months $24,600
Rockefeller University
None: Support Award (SPI-8166400); 60 Months $65,600
SUNY-Albany
None: Support Award (SPI-8166371); 48 Months $16,400
None: Support Award (SPI-8166538); 48 Months $3,290
SUNY-Binghamton
None: Support Award (SPI-8166372); 24 Months $8,200
SUNY-Buffalo
None: Support Award (SPI-8166373); 48 Months $8,200
SUNY-Stonybrook
None: Support Award (SPI-8166374); 36 Months $16,400
SUNY-Environmental Science For.
None: Support Award (SPI-8166376); 48 Months $16,400
Syracuse University
None: Support Award (SPI-8166377); 60 Months $24,600
Yeshiva University
None: Support Award (SPI-8166420); 48 Months $16,400

NORTH CAROLINA

Duke University
None: Support Award (SPI-8166328); 60 Months $65,600
North Carolina State University
None: Support Award (SPI-8166514); 60 Months $49,200
University of North Carolina Chapel Hill
None: Support Award (SPI-8166365); 60 Months $147,600
Wake Forest University
None: Support Award (SPI-8113160); 36 Months $12,015

OHIO

Case Western Reserve
None: Support Award (SPI-8166316); 48 Months $8,200
University of Cincinnati
None: Support Award (SPI-8166319); 60 Months $16,400
Ohio State University
None: Support Award (SPI-8166385); 60 Months $106,600
Miami University
None: Support Award (SPI-8166528); 60 Months $8,200

OKLAHOMA

Oklahoma State University
None: Support Award (SPI-8166386); 60 Months $16,400
Oklahoma University, HSC
None: Support Award (SPI-8166387); 60 Months $8,200
University of Oklahoma
None: Support Award (SPI-8166388); 60 Months $8,200

OREGON

University of Oregon
None: Support Award (SPI-8166389); 48 Months $24,600

PENNSYLVANIA

Bucknell University
None: Support Award (SPI-8166305); 60 Months $8,200
Carnegie-Mellon University
None: Support Award (SPI-8166315); 60 Months $147,600
Pennsylvania State University
None: Support Award (SPI-8166390); 60 Months $49,200
University of Pennsylvania
None: Support Award (SPI-8166391); 60 Months $131,200
University of Pittsburgh
None: Support Award (SPI-8166392); 60 Months $24,600
Temple University
None: Support Award (SPI-8166531); 60 Months $8,200

PUERTO RICO

University of Puerto Rico—Medical Science
None: Support Award (SPI-8166516); 60 Months $41,000
University of Puerto Rico—Rio Piodras
None: Support Award (SPI-8166515); 60 Months $8,200

RHODE ISLAND

Brown University
None: Support Award (SPI-8166304); 60 Months $65,600
University of Rhode Island
None: Support Award (SPI-8166397); 48 Months $8,200

SOUTH CAROLINA

University of South Carolina, Medical Center
None: Support Award (SPI-8166354); 36 Months $8,200
University of South Carolina
None: Support Award (SPI-8166368); 48 Months $8,200

TENNESSEE

Meharry Medical College
None: Support Award (SPI-8166512); 60 Months $8,200
University of Tennessee—HSC
None: Support Award (SPI-8166379); 48 Months $8,200
Univerity of Tennessee
None: Support Award (SPI-8166378); 60 Months $41,000
Vanderbilt University
None: Support Award (SPI-8166407); 60 Months $32,800
Baylor College of Medicine
None: Support Award (SPI-8166302); 12 Months $480

TEXAS

Rice University
None: Support Award (SPI-8166398); 60 Months $98,400
San Houston State University
None: Support Award (SPI-8166367); 60 Months $8,200
Sul Ross State University
None: Support Award (SPI-8166375); 60 Months $8,200
Texas A&M University
None: Support Award (SPI-8166530); 60 Months $8,200
Texas Tech. University
None: Support Award (SPI-8166380); 48 Months $16,400
University of Houston
None: Support Award (SPI-8166338); 60 Months $32,800
None: Support Award (SPI-8166533); 60 Months $8,200
University of Texas, Arlington
None: Support Award (SPI-8166520); 60 Months $24,600
University of Texas, Austin
None: Support Award (SPI-8166382); 60 Months $123,000
University of Texas-HSC, Dallas
None: Support Award (SPI-8166383); 60 Months $24,600
University of Texas-HSC, Houston
None: Support Award (SPI-8166402); 36 Months $8,200
University of Texas, Medical
None: Support Award (SPI-8166521); 60 Months $8,200

UTAH

Utah State University
None: Support Award (SPI-8166405); 60 Months $24,600
University of Utah
None: Support Award (SPI-8166406); 60 Months $32,800

VERMONT

University of Vermont
None: Support Award (SPI-8166408); 48 Months $8,200

VIRGINIA

College of William & Mary
None: Support Award (SPI-8166416); 48 Months $8,200
Eastern Virginia Medical School
None: Support Award (SPI-8166329); 48 Months $8,200
University of Virginia
None: Support Award (SPI-8166410); 60 Months $90,200
Virginia Commonwealth University
None: Support Award (SPI-8166522); 48 Months $8,200
Virginia Poly. Institute
None: Support Award (SPI-8166409); 60 Months $24,600

WASHINGTON

University of Washington
None: Support Award (SPI-8166414); 60 Months $278,800
Washington State University
None: Support Award (SPI-8166413); 48 Months $8,200

WEST VIRGINIA

West Virginia University
None: Support Award (SPI-8166415); 36 Months $8,200

WISCONSIN

University of Wisconsin—Madison
None: Support Award (SPI-8166417); 60 Months $401,800
University of Wisconsin—Milwaukee
None: Support Award (SPI-8166523); 60 Months $8,200

WYOMING

University of Wyoming
None: Support Award (SPI-8166418); 60 Months $8,200

FOREIGN

Booth: Individual Award (SPI-8115404); 60 Months $8,200
Boyce: Individual Award (SPI-8115405); 60 Months $8,200
Brown: Individual Award (SPI-8115406); 60 Months $8,200
Childs: Individual Award (SPI-8115407); 48 Months $8,200
Luhrmann: Individual Award (SPI-8115403); 60 Months $8,200
Matthews: Individual Award (SPI-8115408); 12 Months $8,200
Reitan: Individual Award (SPI-8115402); 60 Months $8,200
Reiter-Lorenz: Individual Award (SPI-8115401); 48 Months $8,200

MINORITY INSTITUTION GRADUATE TRAINEESHIPS

ALABAMA

Tuskegee Institute
Lester; 12Support for 2 Trainees (SPI-8160003); 36 Months $47,400

DISTRICT OF COLUMBIA

Howard University
Littleton; Support for 2 Trainees (SPI-8160011); 36 Months $47,400

FLORIDA

Florida A&M University
Walker; Support for 2 Trainees (SPI-8160009); 36 Months $47,400

GEORGIA

Atlanta University
Hudson; Support for 7 Trainees (SPI-8160000); 36 Months $165,900

MISSISSIPPI

Jackson State University
Archer; Support for 3 Trainees (SPI-8160007); 36 Months $71,100

NEW YORK

City College
Cheng; Support for 2 Trainees (SPI-8160006); 36 Months $47,400
Long Island University
Gross; Support for 2 Trainees (SPI-8160008); 36 Months $47,400

NORTH CAROLINA

North Carolina A&T State University
Hicks; Support for 2 Trainees (SPI-8160004); 36 Months $47,400
North Carolina Central University
Townes; Support for 4 Trainees (SPI-8160002); 36 Months $94,800

PUERTO RICO

University of Puerto Rico, Rio Piedras
Rossy; Support for 5 Trainees (SPI-8160001); 36 Months $118,500

TENNESSEE

Meharry Medical College
Dolce; Support for 6 Trainees (SPI-8160005); 36 Months $142,200

TEXAS

Texas Southern University
Jones; Support for 5 Trainees (SPI-8160014); 36 Months $118,500

VIRGINIA

Hampton Institute
Garrison; Support for 3 Trainees (SPI-8160010); 36 Months $71,100

POSTDOCTORAL FELLOWSHIPS

CALIFORNIA

Baker; Individual Award (SPI-8166001); 36 Months $15,300
Breslow; Individual Award (SPI-8166004); 36 Months $15,700
Hung; Individual Award (SPI-8166066); 40 Months $16,150
Lubin; Individual Award (SPI-8166057); 36 Months $16,520
Shiller; Individual Award (SPI-8166042); 36 Months $15,895

FLORIDA

Dereszewski; Individual Award (SPI-8166008); 36 Months $15,610

ILLINOIS

Coley; Individual Award (SPI-8166005); 36 Months $14,600
Dunkel-Schetter; Individual Award (SPI-8166010); 36 Months $15,645
Herron; Individual Award (SPI-8166016); 36 Months $15,580
Hogan; Individual Award (SPI-8166018); 36 Months $15,905
Swanson; Individual Award (SPI-8166045); 36 Months $15,300
Weis; Individual Award (SPI-8166048); 36 Months $15,565

INDIANA

Gray; Individual Award (SPI-8166015); 36 Months $15,485

IOWA

Feener; Individual Award (SPI-8166012); 36 Months $15,300
Possidente; Individual Award (SPI-8166034); 36 Months $15,505

MARYLAND

Deming; Individual Award (SPI-8166007); 36 Months $15,830
Dunn; Individual Award (SPI-8166053); 40 Months $15,300
Miller; Individual Award (SPI-8166028); 36 Months $15,435
Pellmar; Individual Award (SPI-8166030); 36 Months $14,100
Petuch; Individual Award (SPI-8166032); 36 Months $15,300

MASSACHUSETTS

Albert; Individual Award (SPI-8166051); 40 Months $15,925
Nelson; Individual Award (SPI-8166059); 40 Months $15,330
Potrikus; Individual Award (SPI-8166035); 36 Months $15,300

MICHIGAN

Mandich; Individual Award (SPI-8166026); 36 Months $15,860

NEW JERSEY

Lucchese; Individual Award (SPI-8166025); 36 Months $15,530

NEW YORK

Dominey; Individual Award (SPI-8166019); 36 Months $15,400
Gibbs; Individual Award (SPI-8166055); 40 Months $15,300
Lester; Individual Award (SPI-8166024); 36 Months $14,700
Richards; Individual Award (SPI-8166037); 36 Months $15,300
Rocek; Individual Award (SPI-8166038); 36 Months $16,300
Wasserman; Individual Award (SPI-8166047); 36 Months $15,300

NORTH CAROLINA

Blanton; Individual Award (SPI-8166003); 36 Months $15,370
Silk; Individual Award (SPI-8166043); 36 Months $15,530

OREGON

Glick; Individual Award (SPI-8166014); 36 Months $15,300

PENNSYLVANIA

Mullin; Individual Award (SPI-8166058); 40 Months $15,300

RHODE ISLAND

Landahl; Individual Award (SPI-8166021); 36 Months $15,700

SOUTH CAROLINA

Pierce; Individual Award (SPI-8166033); 36 Months $15,455

TENNESSEE

Fischer; Individual Award (SPI-8166013); 36 Months $15,300
Peluso; Individual Award (SPI-8166031); 36 Months $15,300
Stephenson; Individual Award (SPI-8166044); 36 Months $15,680

TEXAS

Ellis; Individual Award (SPI-8166011); 36 Months $15,300
Read; Individual Award (SPI-8166036); 36 Months $15,835

WASHINGTON

White; Individual Award (SPI-8166050); 36 Months $15,680

WISCONSIN

Fagan; Individual Award (SPI-8166054); 40 Months $15,480
Vogelmann; Individual Award (SPI-8166046); 36 Months $16,500

FELLOWSHIP AND TRAINEESHIP AWARDS

Institutions Granted Traineeships and Chosen by Fellowship Awardees, Fiscal Year 1981

United States Institutions	*Totals*	*Graduate Fellowships*	*Minority Graduate Fellowships*	*Minority Institution Graduate Traineeships*	*Postdoctoral Fellowships*
ALABAMA					
Tuskegee Institute	2			2	
ARIZONA					
Univ. of Arizona	5	4	1		
ARKANSAS					
Univ. of Arkansas	1		1		
CALIFORNIA					
Cal. Inst. Technology	24	21	1		2
Humboldt State Univ.	1		1		
Naval Postgraduate Sch	1	1			
Stanford Univ.	61	55	5		1
Univ. of Cal., Berkeley	36	30	5		1
Univ. of Cal., Davis	6	4	2		
Univ. of Cal., Irvine	2	1	1		
Univ. of Cal., Los Angeles	2	2			
Univ. of Cal., Riverside	3		3		
Univ. of Cal., San Diego	13	11			2
Univ. of Cal., San Francisco	3	3			
Univ. of Cal., Santa Barbara	2	1			1
Univ. of Cal., Santa Cruz	4	2	2		
COLORADO					
Colorado State Univ.	2	1	1		
Columbia Teachers Col.	1			1	
Univ. of Colorado	2	2			
CONNECTICUT					
Yale Univ.	13	9	1		3
DISTRICT OF COLUMBIA					
Georgetown Univ.	1		1		
George Washington Univ.	4	1	2		1
Howard Univ.	5		3	2	
Smithsonian Inst.	1				1
FLORIDA					
Florida A&M Univ.	2			2	
Univ. of Florida	2		2		
Univ. of S. Florida	1		1		
Florida State	1		1		
GEORGIA					
Atlanta Univ.	7			7	
Georgia Inst. of Tech.	3	2	1		
Georgia S. College	1	1			
Georgia State Univ.	1		1		
Univ. of Georgia	3	1	1		1
ILLINOIS					
Illinois Inst. of Technology	1		1		
Northwestern Univ.	5	3	1		1
Southern Illinois Univ.	1	1			
Univ. of Chicago	12	10			2
Univ. of Illinois, Urbana	9	8	1		

FELLOWSHIP AND TRAINEESHIP AWARDS—CONTINUED

Institutions Granted Traineeships and Chosen by Fellowship Awardees

United States Institutions	*Totals*	*Graduate Fellowships*	*Minority Graduate Fellowships*	*Minority Institution Graduate Traineeships*	*Postdoctoral Fellowships*
INDIANA					
Indiana Univ.,Purdue	3	3			
Purdue Univ.	3	2	1		
IOWA					
Iowa State Univ.	4	3	1		
Univ. of Iowa	1				1
KANSAS					
Kansas State Univ.	1	1			
Univ. of Kansas	2	2			
KENTUCKY					
Univ. of Kentucky	2	1	1		
LOUISIANA					
Louisiana State Univ.	1		1		
Tulane	1	1			
MARYLAND					
Health Education & Welfare	1				1
John Hopkins Univ.	4	3	1		
Univ. of Maryland	4	1	1		2
MASSACHUSETTS					
Boston Univ.	2	2			
College of the Holy Cross	1		1		
Harvard Univ.	49	45	2		2
Harvard Univ., Med Sch	1				1
Mass. Inst. of Technology	60	49	6		5
Univ. of Brandeis	1				1
Univ. of Cambridge	2	2			
Univ. of Massachusetts	4	2	2		
MICHIGAN					
Michigan State Univ.	7	4	3		
Univ. of Michigan	18	13	4		1
MINNESOTA					
Univ. of Minnesota	9	8	1		
MISSISSIPPI					
Univ. of Mississippi, Med Ctr	1	1			
Jackson State	3			3	
MISSOURI					
St. Louis Univ.	1		1		
Univ. of Missouri, Rolla	1	1			
Washington Univ.	1	1			
NEW HAMPSHIRE					
Dartmouth	1	1			
NEW JERSEY					
Bell Labs	1				1
Princeton Univ.	23	21	1		1
Rutgers State Univ.	1	1			

FELLOWSHIP AND TRAINEESHIP AWARDS—CONTINUED

Institutions Granted Traineeships and Chosen by Fellowship Awardees

United States Institutions	*Totals*	*Graduate Fellowships*	*Minority Graduate Fellowships*	*Minority Institution Graduate Traineeships*	*Postdoctoral Fellowships*
NEW YORK					
City Univ. of N.Y.	6	1	3	2	
Columbia Univ.	10	7	3		
Cornell Univ.	25	20	2		3
Long Island Univ.	4		2	2	
Rensselaer Univ.	3	3			
Rockefeller Univ.	2	1			1
Syracuse Univ.	1	1			
Univ. of Rochester	1		1		
NORTH CAROLINA					
Duke Univ.	2	2			
N. Carolina Agricul. & Tech.	2			2	
N. Carolina Central	4			4	
N. Carolina State Univ.	2		2		
Univ. of N.C., Chapel Hill	4	4			
OHIO					
Case Western Reserve	1	1			
Miami Univ.	1	1			
Ohio State Univ.	8	5	3		
Univ. of Cincinnati	1		1		
OKLAHOMA					
Univ. of Oklahoma, Hth Sci Ctr	1	1			
Univ. of Oklahoma	1	1			
OREGON					
Univ. of Oregon Hth Sci Ctr	1				1
PENNSYLVANIA					
Bucknell Univ.	2	1			1
Carnegie-Mellon Univ.	5	5			
Pennsylvania State Univ.	1	1			
Univ. of Pennsylvania	5	3	2		
Univ. of Pittsburgh	1	1			
PUERTO RICO					
Univ of P.R., Med School	2		2		
Univ. of P.R., Rio Piedras	6		1	5	
RHODE ISLAND					
Brown Univ.	2	2			
TENNESSEE					
Meharry Med. Col.	7		1	6	
Univ. of Tennessee, Hth Sci Ctr	1				1
Univ. of Tennessee	3	3			
Vanderbilt Univ.	1	1			
Vanderbilt Univ., Sch of Med	1				1
TEXAS					
Rice Univ.	4	2	1		1
Sam Houston State Univ.	1		1		
Southern Methodist Univ.	1	1			
Sul Ross State Univ.	1	1			
Texas Southern	5			5	

FELLOWSHIP AND TRAINEESHIP AWARDS—CONTINUED

Institutions Granted Traineeships and Chosen by Fellowship Awardees

United States Institutions	*Totals*	*Graduate Fellowships*	*Minority Graduate Fellowships*	*Minority Institution Graduate Traineeships*	*Postdoctoral Fellowships*
Texas A&M Univ.	1		1		
Univ. of Houston	1		1		
Univ. of Texas, Arlington	2		2		
Univ. of Texas, Austin	10	5	4		1
Univ. of Texas-Hth Sci, Dallas	1	1			
Univ. of Texas-Hth Sci, Galveston	1		1		
Univ. of Texas-Hth Sci, San Antonio	1				1
UTAH					
Univ. of Utah	3	1	1		1
Utah State Univ.	1	1			
VIRGINIA					
Hampton Institute	3			3	
Univ. of Virginia	5	4	1		
Va. Polytech. Inst.	1	1			
WASHINGTON					
Univ. of Washington	9	8	1		
WISCONSIN					
Univ. of Wisconsin, Madison	15	13			2
WYOMING					
Univ. of Wyoming	1	1			

Foreign Institutions Chosen by Fellowship Awardees, Fiscal Year 1981

Foreign Institutions	*Totals*	*Graduate Fellowships*	*Minority Graduate Fellowships*	*Minority Institution Graduate Traineeships*	*Postdoctoral Fellowships*
CANADA					
Univ. of Toronto	3	2			1
SCOTLAND					
Univ. of Aberdeen	1	1			
SWEDEN					
Univ. of Lund	1				1
SWITZERLAND					
Univ. of Geneva	1				1
UNITED KINGDOM					
Univ. of Cambridge	2	1			1
Univ. of Oxford	1	1			
TOTAL FOREIGN	9	5	0	0	4
GRAND TOTAL	650	450	105	45	50

FELLOWSHIP AWARDS

Name and Field of Study of Individuals Offered National Science Foundation Fellowships by State of Permanent Residence, Fiscal Year 1981

ALABAMA

FOWLER, TRACY A., E/Mechancl
HINE BUTLER P.III, Astronomy
PIETRZYK, JOE R., E/Mechancl

ALASKA

REID, WALTER V., Ecology

ARIZONA

AUGUST, DAWN M., Biooceancg
HAMILTON, ROBERT T., E/Chemical
WEST, FREDERICK G., Chem/Orgnc
WHETTEN, ROBERT L., Chemphysel

CALIFORNIA

BAIN, DAVID F., Zoology
BAKER, JAMES F., Int/Psych
BICKLER, PHILIP E., Physiology
BJORKMAN, THOMAS N., Botony
BOLES, MARTIN R., Geology
BRAUN, SUZANNE E., Ecology
BRESLOW, LEONARD A., Psych/Dev
BRUNK, JOHN C., Urb & Reg Pl
CASE, ELIZABETH A., Physiology
CONZELMAN, KAREN A., Zoology
COOPER, ERIC C., Math/Cptr
DIESEL, ERIC J., Math/Stats
ESTEY, SUE J., Pharmacol
FOX, BARBARA A., Linguistcs
GELMAN, SUSAN A. Psych/Dev
GIBBONS, ROBERT S., Social Sci
GILLESPIE, FRANCES P., Biology
GINIGER, EDWARD S., Molec Biol
GOMBY, DEANNA S., Psych/Socl
HAAG, PAMELA D., Biochem
HADEN, PATRICIA E., Psych/Exp
HAUBRICH, JEANNE E., Chem/Orgnc
HAYNES, ANNA K., Zoology
HEDSTROM, KATHERINE S., Geophysics
HUNG, DAISY, Physcho
JACOBSON, DEAN M., Biooceanog
JASKOL, LISA R., Anthrpolgy
JESSUP, DENISE D., Psych/Dev
JOHNSON, LADD E., Ecology
KATZ, LAWRENCE F., Economics
KRANZLER, DEBORAH L., Microbiol
LUBIN, PHILIP, Astrophysics
LUCCHESE, ROBERT R., Chemphysel
MADERIS, ANN M., Biochem
MATSUMO K., E/Chemical
MAUK, MICHAEL D., Psych/Exp
MIN, HYE Y., Pharmacol
MONTOYA, JOSEPH P., Biooceanog
PAUL, VALERIE J., Biooceanog
PETERSON, SALLY L., Geophysel
ROBERTS, SUSAN J., Biooceanog
ROUDEBUSH, JANICE L., Social Sci
ROYDEN, CONSTANCE S., Med Sci
RYCHNOVSKY, SCOTT D., Chem/Orgnc
SACHS, ELIZABETH A., Math/Algbr
SHARP, KATHY L., Economics
SHILLER, ALAN M., Oceangrphy
SHOR, PETER W., Math/Algbr
SIEGEL, VIVIAN, Biochem
SIMMONS, GAIL M., Genetics
SMITH, TERESA G., Chem/Inorg
SPECHT, ELIOT D., Phys/State
STEMBRIDGE, JOHN R., Math/Algbr
STRECKER, ROBERT E., Psych/Exp
TAUXE, CAROLINE S., Anthrpolgy
TSUJI, JOYCE S., Ecology
VAN BRUGGEN, CONRAD, Geophysics
WEISBURD, STEFI A., Phys/State
WENDT, CHRISTOPHER H., Theor Phys
WILLIAMS, KIMBERLYN, Botany
WIXTROM, ROGER W., Pharmcol
WU, LAWRENCE L., Sociology
ZAX, DAVID B., Chemphysel
ZIURYS, LUCY M., Chemphysel

COLORADO

CASS, WAYNE A., Anatomy
ENNIS, CHRISTINE R., Chem/Analt
GILBERT, DANIEL T., Psych/Exp
GOLDMAN, BRUCE H., Cell Biol
HESS, EDWARD D., Psych/Exp
HOFFMAN, GABRIEL D., E/Aeronaut
TEITELBAUM, JEREMY T., Math/Algbr

CONNECTICUT

AXLINE, SUSAN P., Ecology
BALDWIN, DOUGLAS L., Math/Cmptr
DODD, JAMES A., Chem/Orgnc
ELSER, JAMES J., Ecology
FEIT, PAUL, Math/Algbr
HAEGEL, NANCY M., E/Mettallrg
HECKER, SCOTT J., Chem/Orgnc
NORTON, HAMISH W. M., Phys/Part

DELAWARE

KUEHLWEIN, MICHAEL K., Economics
SWEIGARD, JAMES A., Microbiol

DISTRICT OF COLUMBIA

GAVIN, MICHAEL K., Economics

FLORIDA

ANDREW, DEBORAH J., Genetics
BERK, DAVID A., Bio/Engr
BUCHANAN, JOHN S., E/Chemical
CERVONE, DANIEL P., Psych/Pers
COTTERMAN, RONALD L., E/Chemical
DERESZEWSKI, GAIL N., Cell Biol
DOE, CHRISTOPHER Q., Cell Biol
DUBOIS, GREGORY P., Theor Phys
FARNHAM, DANA A., Anthrpolgy
FRANKEL, CAROLYN, Sociology
MATTOX, JOHN R., Phys/State
PARKER, GARTH R. JR., Chemphysel

GEORGIA

BARGMANN, CORNELIA I., Genetics
BOCKMAN, THOMAS, M, Chem/Orgnc
CAMPBELL, JAMES D., Entomology
FORREN, HELMUT R., E/Electron
HERSHBERGER, JOHN E., Math/Apps

HAWAII

SANDERSON, SARAH L., Life Sci

IDAHO

KAPPELMAN, JOHN W. JR., Anthrpolgy

ILLINOIS

ANOVITZ, LAWRENCE M., Earth Sci
APPEL, ANDREW W., Math/Cmptr
BAUMGARDNER, JAMES R., Economics
BENDER, STEVEN L., Ecology
CAPMAN, WILLIAM C., Ecology
COLEY, PHYLLIS D., Ecology
DUNKEL-SCHETTER, CHRIST, Int/Psych
ECHOLS, CATHARINE H., Psych/Dev
ERNSBERGER, PAUL R., Physiology
FERNANDEZ, DONNA E., Cell Biol
FOULSER, DAVID E., Math/Cmptr
FRANCIS, DEBRA C., E/Chemical
FREED, DANIEL S., Math/Geom
GERLOFF, JANE E., Agronomy
HERRON, JAMES N., Biophysics
HOGAN, CRAIG J., Astronomy
HUMMEL, HARRY H., Geochem
JORGENSEN, SCOTT W., E/Chemical
KAMM, JAMES R., Math/Apps
KERBER, RICHARD A., Anthropology
LANDAHL, KAREN L., Linguistcs
LARSON, JOHN R., Med Sci
LESTER, JULIA C., E/Chemical
MAURATH, PAUL R., E/Chemical
MILLER, CHERYL A., Sociology
PETERSON, CHRISTINA, Archeology
POLAK, JOSEPH E., Ecology
QUINLEY, JOHN C., Polit Sci
ROCEK, MARTIN, Phys/Part
SWANSON, MAURICE S., Molec Biol
SAH, DINAH W., Med Sci
SCHLEICH, KRISTIN, Phys/Part
SCHUBERT, ADAM J., Chem/Analt
STERNER, ROBERT W., Ecology
VISHNY, ROBERT W., Economics
WEIS, ARTHUR E., Ecology
WRIGHT, STEVEN M., E/Electrcl

INDIANA

BACHMAN, ELWOOD W, Psych/Socl
BALSHEM, MARTHA L., Anthrpolgy
BEACHY, PHILLIP A., Genetics
BOEBINGER, GREGORY S., Phy/State
BONSER, CATHERINE A., Economics
CALL, MICHAEL L., E/Chemical
COLE, CATHERINE A., Math/Cmptr
GRAY, LEWIS, Social/Oth
HEISE, ANNE E., Soil Sci
JOHNSON, ALICE E., Genetics
LANE, CHARLES E., Phys/Nuclr
PHILLIPS, SUSAN L., E/Electrical

POLT, ROBIN L., Chem/Orgnc
SPECKHARD, THOMAS A., E/Chemical
WEIR, ROBERT H., Geology

IOWA

BECKMAN, CAROL S., Math/Cmptr
BROWN, DIA L., Hst Of Sci
FAY, JON A., Economics
FEENER, DONALD H. JR., Ecology
LESCH, ROBERT A., E/Chemical
NOVICK, LAURA R., Psych/Exp
POSSIDENTE, BERNARD P., Zoology
REITAN, ERIC A., Hst Of Sci
VAN ITEN, HEYO T., Paleontlgy

KANSAS

ELLINGTON, ANDREW D., Biochem
HUSKEY, WILLIAM P., Chem/Orgnc
PAIGE, JEFFREY L., Cell Biol
REVES, WANDA F., Math/Cmptr
SCHEETS, KAY B., Biochem
WALKER, JAMES D., Geology

KENTUCKY

BOOKHEIMER, SAMUEL T., Polit Sci
LISTEMANN, MARK L., Chem/Inorg

LOUISANA

BROUSSARD, PHILLIP R., Phys/State
DEATON, JOSEPH C., Chem/Inorg
EARLE, JOHN S., Economics
GARRITY, THOMAS A., Math/Analy
LOZADA, GABRIEL A., Economics
YOUNG, ROSEMARIE H., Psych/Exp

MAINE

KIRK, MARSHALL K., Psychometer
RUSSEL, GREGORY F., E/Aeronaut
WILCOX, RICHARD J., E/Chemical

MARYLAND

BRINN, MARSHALL S., Math/Cmptr
CHIEN, CHI-BIN, Phys/Space
DEMING, JODY W., Microbiol
DIEGEL, FREDERIC A., Geology
DOMS, ROBERT W., Cell Biol
HAMILTON, MARGARET M., Psych/Socl
LOWENFELD, ELLEN G., Math/Cmptr
PELLMAR, TERRY C., Pharmacol
PETUCH, EDWARD J., Zoology
PIERSON, DOROTHY E., Biology
READ, KENNETH F. JR., Phys/State
SKRUTSKIE, MICHAEL F., Astronomy
TIPLITZ, KIM L., Bio/Engr
WOLF, WILLIAM A., Pharmcol

MASSACHUSETTS

ALBERT, PETER, Ecology
BERNSTEIN, GEOFFREY P., Polit Sci
BUTLER, SIGMUND M., E/Chemical
CRUZ, RENE L., E/Electrical
DOHERTY, ELIZABETH M., Polit Sci
FRIEDMAN, DAVID B., Polit Sci
GERRIG, RICAHRD J., Psych/Exp
JONES, CHARLES F., Linguistes
KISALA, JERI S., Linguistes
MATTIS, MICHAEL P., Theor Phys
MC CONNEL, SUSAN K., Med Sci
NELSON, DOUGLAS, Biol
POTRIKUS, CATHERINE J., Molec Biol
RAU, GERALD A., Horticultr
ROMER, DAVID H., Economics
STOCK, JOANN M., Geophysics
UNGER, CHRISTOPHER D., Theor Phys
VOM EIGEN, KEITH A., Anthrpolgy

MICHIGAN

BOHR, JAMES E., Chemphysel
BOSS, ROGER D., Chem/Analt
BOYCE, JAMES K., Economics
BROWN, WARD T., Chemphysel
CRESSWELL, LISA A., Physiology
DAVENPORT, JANET M., Anthrpolgy
GRIFFITH, LESLIEC., Pharmacol
MANDICH, MARY L., Chemphysel
HORN, DAVID G., Anthrpolgy
KAHN, JAMES A., Economics
KRAUS, EDWARD F., Ecology
KROMPART, LUCIA B., Math/Cmptr
ORBACH, MARC J., Molec Biol
PELZ, JONATHAN P., Phys/State
RICHARDS, ANNE M., Ecology
ROSKAMP, JEANNETTE A., Economics
ROVNER, ARTHUR S., Physiology
SHELL, BRITON, E., Molec Biol
SHISHKOFF, NINA, Botany
SONGER, MARYE F., Physiology
STEWART, RICHARD C., Biochem
SWIFT, LINDA P., Anthrpolgy
WESTRATE, NANCY L., Anthrpolgy
WOLFE, WENDY S., Anthrpolgy

MINNESOTA

CASALNUOVO, ALBERT L., Chem/Inorg
DEEG, MARK A., Pharmacol
DERBY, JEFFREY J., E/Chemical
ERBES, MICHAEL, R., E/Mechancl
HESTERBERG, TIMOTHY P., Math/Stats
KINKEL, LINDA L., Phytopath
LEVINSON, ROBERT A., Math/Cmptr
MURNANE, KEVIN, Hst Of Sci
PEIFER, MARK A., Molec Biol
SCHWABACHER, ALAN W., Chem/Orgnc

MISSISSIPPI

BALDWIN, BRENDA J., Med Sci
ROBINSON, PHYLLIS A., Microbiol

MISSOURI

FRATTINI, PAUL L., E/Chemical
GIPSON, STEPHEN L., Chemphysel
GRAVEN, MICHAEL A., Genetics
JOHNSON, MARK A., Theor Phys
ROBSON, LORI M., Microbiol
SALISBURY, STEPHEN K., Math/Cmptr
SCHERRER, ROBERT J., Phys/Part
THOMPSON, PATRICK F., E/Chemical

MONTANA

CLINCH, ANTHONY B., E/Chemical
MILLER, JAMES E., Geology

NEBRASKA

MASEK, BRIAN B., Chemphysel
OLSON, LARS J., Economics
THOMAS, PATRICK M., Archeology
WILLIAMS, DAVID A., Theor Phys

NEW HAMPSHIRE

SCHWERIN, FRANCIS T. JR., Pharmacol

NEW JERSEY

ASSMANN, SARAH M., Botany
BLUM, JONATHAN H., Biochem
CRONMILLER, CLAIRE R., Biology
DUCKWORTH, CHRISTINA L., Economics
FAULHABER, MARY K., Psych/Exp
GORCHOV, DAVID L., Ecology
HARTMAN, FRANCIS X., Chemphysel
HORCHSTRASSER, MARK W., Biochem
JOHNSON, CAROL V., Psych/Exp
KAROL, MARK J., E/Electrical
KRAUS, WILLIAM F., Life Sci
LUCCHESE, ROBERT, Chemistry
LUHRMANN, TANYA M., Anthrpolgy
MEIER, ROBERT J., E/Electron
REGEN, CHESTER M., Biophysics
REITMAN, DAVID S., Op R/Math
SCHWARZ, KURT A., Polit Sci
SIMONDS, KATHERINE K., Economics
STERN, MICHAEL J., Biochem
RUBIN, KARL C., Math/Algbr

NEW MEXICO

COATS, REBECCA S., E/Mechancl
JONES, CAROL L., E/Chemical
O'ROURKE, MARY L., Molec Biol
SNYDER, GARY J., Chem/Orgnc

NEW YORK

ALTSCHUL, STEPHEN F., Math/Apps
BAMFORD, THOMAS A., E/Material
BARNEY, CHRISTINE A., Nutrition
BRISON, KAREN J., Anthrpolgy
CLAYTON, DAVID F., Molec Biol
CO, EUGENE L., Chem/Orgnc
COLEY, RAYMOND A., Math/Topol
CONNER, JEFFREY K., Zoology
CONNOLLY, MAUREEN A., Chemphysel
CONNOLLY, MICHAEL J., E/Mechancl
DELLA, PIETRA STEPHEN A., Theor Phys
DOMINEY, WALLACE J., Zoology
DEUTSCH, CHARLES J., Zoology
DURBAN, DIANE C., Oceangrphy
FISCHER, JANICE A., Genetics
FORGER, NANCY G., Psych/Exp
FROST, WILLIAM N., Me Sci
GIBBS, CHARLES M., Biol
GOLDMAN, DEBRA S., Microbiol
HELLER, PETER N., Math/Analy
HEYMAN, JOSIAH M., Anthrpolgy
IMMERGUT, ELLEN M., Sociology
ISLAM, MOHAMMED N., E/Electrcl
KROEBER, PAUL D., Linguistes
LAKE, MARK, Math/Cmptr
LENCHNER, JONATHAN, Math/Analy
LESTER, MARSHA I., Chemphysel
LO, ANDREW W., Economics
LOUIS, EDWARD J., Genetics
MONTELIONE, GAETANO T., Biochem
NORBECK, DANIEL W., Chem/Orgnc
PASHLER, HAROLD E., Psych/Orgnc
PRIORE, DONALD A., E/Electrical
RATCLIFF, STEPHEN J., Astronomy
RICHARDS, JOAN L., Hst Of Sci
ROCEK, MARTIN, Math
RODMAN, HILLARY R., Med Sci
RUNDEL, SUSAN J., Botany
SHMOYS, DAVID B., Life Sci
SPENCE, CAROL A., Molec Biol
STROKE, ILANA L., Molec Biol
TSE-ENG, DORIS B., Microbiol
TURKEWITZ, AARON P., Biochem

WALLACE, DAVID E., Math/Cmptr
WASSERMAN, IRA M., Astronomy
WEIS, WILLIAM L, Biochem
WILLIAMS, SANDRA L., Molec Biol
WOLOZIN, BENJAMIN L., Med Sci

NORTH CAROLINA

BENFEY, PHILIP N., Molec Biol
BLAKE, GEOFFREY A., Chemphysel
BLANTON, RICHARD L., Botany
BROOKS, KENNETH P., Math/Cmptr
DEANE, PAUL D., Linguistes
FIELD, LES W., Anthrpolgy
FREYMANN, DOUGLAS M., Biochem
GOREE, JOHN A. JR., Math/Cmptr
HOLTZMAN, ADAM P., Economics
KEGELMEYER, WILLIAM P., E/Electrical
KENNEDY, MICHAEL D., Sociology
KOSTELICH, ERIC J., Math/Apps
LOECHEL, STEVEN C., Biochem
ROBB, RICHARD G. JR., Economics
SILK, JOAN B., Ecology
STURM, JAMES C., E/Electron

NORTH DAKOTA

THOMPSON, DIANE L., Anatomy

OHIO

ANSTAETT, MARK R., Geog/Nphys
BUCHANAN, NEIL H., Economics
CAHILL, PAUL A., Chem/Orgnc
ECKART, GLEN A., E/Electron
GABLE, KEVIN P., Chem/Orgnc
GOODMAN, MARK W., Theor Phys
JAMESON, RALPH S., Phys/Optic
KROOS, LEE R., Biochem
LARSON, BROND E., Theor Phys
MALY, MARK S., Zoology
MC GEOCH, LYLE A., Math/Cmptr
PERRINE, KIMBERLY L., Genetics
PETERS, NANCY W., Anthrpolgy
POWELL, KEVIN T., Bio/Engr
RANCE, BRIAN D., Economics
REYNOLDS, MARTHA S., Chem/Inorg
ROSSANA, CINDYLOU F., Biochem
SCHUSTER, PRISCILLA F., Anthrpolgy
VOGEL, DANNY C., Math/Cmptr
WELSH, RICHARD, Economics
WIEDMAN, PAUL E., Chem/Orgnc
WILLIAMS, CHRIS P., Biochem
YOUNG, GERALD W., E/Mechanel
ZUPAN, MARK A., Economics

OKLAHOMA

CHANDLER, MARGARET G., Pharmcol
DOYE, DAMONA G., Economics
PATTERSON, GENE E., Geog/Nphys
THORNBURG, DAVID M., E/Chemical

OREGON

ANDERSON, RICHARD J., Math/Cmptr
BOOTH, CAREY L., Ecology
CHENEY, RICHARD E., Molec Biol
GLICK, BARBARA B., Int/Anthro
REBAGLIATI, MICHAEL R., Biochem

PENNSYLVANIA

ALBERTIN, UWE K., Phys/Part
ARONOVITZ, JOSEPH A., Theor Phys
BAUM, TIMOTHY A., Math/Apps
BLACKMOND, DONNA G., E/Chemical
BOOSKE, JOHN H., E/Nuclear
BROMMER, KARL D., Phys/Fluid
CARMAN, GEORGE J., Physiology
EBRIGHT, RICHARD H., Biology
EHRLICH, MARK E., Biooceanog
FARLEY, MARTIN B., Paleontlgy
FINCH, WILLIAM C., Chem/Inorg
FOX, SUSAN R., Physiology
GIVENS, KERRY T., Ecology
HALLWACHS, WINIFRED, Ecology
HELLMAN, ERIC S., E/Electrcl
HUETTNER, JAMES E., Med Sci
KARLOFF, HOWARD J., Math/Cmptr
KOCH, DONALD L., E/Chemical
KUTA, CHARLES S., E/Electron
MULLIN, JAMES M., Biol
O'LEARY, ANN M., Psych/Exp
PALMER, CAROLYN F., Psych/Dev
PETZOLD, JEFFREY S., E/Nuclear
RODGERS, DAVID W., Biophysics
SANDMAN, KATHLEEN M., Genetics
SCHUSTACK, MIRIAM W., Psych/Exp
SEGRAVES, WILLIAM A. JR., Biochem
SWITKAY, HAL M., Math/Logic
TAYLOR, GREGORY F., E/Electron
ZEMEL, BABETTE S., Anthrpolgy
ZIMMT, MATTHEW B., Chemphysel

RHODE ISLAND

ANDERSON, JOYCE E., Math/Apps
LANDAHL, KAREN, Psycho

SOUTH CAROLINA

AU, KARIN G., Chem/Orgnc
MOORE, KATHLEEN L., Genetics
PIERCE, JOHN W. JR., Biochem
WOFFORD, JOSEPH R. II, E/Electricl

TENNESSEE

BERWANGER, PATRICK C., Chemphysel
FISCHER, RANDY S., Microbiol
NELSON, PHILIP C., Theor Phys
PELUSO, RICHARD W., Microbiol
STEPHENSON, GREGORY B. E/Material

TEXAS

ARCHER, BRANCH T., Phys/Part
BELL, JOHN P., Chem/Orgnc
BRAMLEY, RANDALL B., Math/Topol
BROWN, CHARLES R., Ecology
DURLAND, ROSS H., Molec Biol
ELLIS, GARY B., Physiology
FREDERICK, JOHN H., Chemphysel
GREEN, JEFFREY S., Polit Sci
GULIG, PAUL A., Microbiol
HESTER, JOHN J., Astronomy
LOER, CURTIS M., Med Sci
MAGEL, GREGORY A., E/Electrical
MC GINNIS, MICHAEL E., Biology
PHILLIPS, JEFFREY N., E/Mechanel
POLLEY, HERBERT W., Ecology
PROSCHAN, FRANK, Anthrpolgy
READ, STEPHEN J., Psych/Socl
RUDNICK, ROBERTA L., Geology
SHORE, ANDREW I., Math/Cmptr
ULLMANN, RONALD F., Geophysics

UTAH

GOLD, WARREN G., Ecology
HACKING, PERRY B., Astronomy
TERZAGHI, WILLIAM B., Cell Biol
WODTKE, ALEC M., Chemphysel
VERMONTDIRMAIER, LAURE J., Pharmcol

VIRGINIA

BALL, LAURENCE M., Economics
BERGONDY, MAUREEN L., Psych/Exp
CHAMBLISS, DAVID D., Phys/Ewave
CHURCH, BARBARA H., Ecology
CULBERTSON, CYNTHIA, E/Mechanical
DOREMUS, HOLLY D., Botany
DOYON, LEON G., Archeology
HALL, MELINDA M., Oceangrphy
KOLE, LINDA S., Economics
MULLER, SUSAN J., E/Chemical
PAQUETTE, LYNN A., Economics
ROSE, NANCY L., Economics
SALMON, AMIR, Chem/Orgnc

WASHINGTON

BREWER, BRIANA J., Linguistes
DRAKE, THOMAS G., Geology
HARPER, ALAN B., Zoology
IDZERDA, REJEAN L., Pharmcol
KILCUP, GREGORY W., Theor Phys
MOSS, CYNTHIA F., Psych/Exp
NELSON, MICHAEL R., Geology
TAYLOR, BRIAN H., Biochem
WHITE, FRANK F., Microbiol
YANTIS, STEVEN G., Psych/Exp
ZEHR, JONATHAN P., Zoology

WEST VIRGINIA

HOSIMER, PHILIP C., E/Chemicl
MOORE, STEVEN R., E/Mechanel

WISCONSIN

ATEN, NANCY M., E/Electron
BAKER, MARK C., Linguistes
ENGH, RICHARD A., Chemphysel
FAGAN, PAUL J., Biol
GOODRICH, DAVID C., E/Civil
KERBY, ROBERT L., Microbiol
KRAFKA, CAROL L., Psych/Socl
LAWLER, ANN M., Pathology
MC CAULEY, MARY A., Botany
MITCHELL-OLDS, STORRS T., Ecology
SELEP, JOHN B., Engineer
TONIES, JULIA A., Fish & Wild
WOLF, MARINA E., Med Sci
VOGELMANN, THOMAS C., Botany

WYOMING

PERNICH, DANIEL J., Chem/Orgnc

FELLOWSHIP AWARDS

Name and Field of Study of Individuals Offered National Science Foundation Minority Graduate Fellowships, Fiscal Year 1981

ALABAMA

BROWN, ALEXANDER C. JR., Horticultr
PILGRIM, DAVID, Sociology

ARIZONA

DE POY, ROSEMARIE E., Chem/Inurg
WHEELER, COSETTE M., Microbiol

ARKANSAS

WALTON, TRENT A., E/Chemical

CALIFORNIA

COLVIN, TIM R., Math/Apps
DE LA ROSA, JAMES, Nutrition
GALINDO, TINA M., Biology
GONZALES, ELIZABETH A., Biooceanog
GORDUS, ANDREW, G., Fish & Wild
LOPEZ, FRED A. III, Polit Sci
MILLS, JOY M., Math/Cmptr
MOAD, ALEXANDER S., Ecology
MUNOZ, NINA R., Psych/Dev
PENBERTHY, TERESA M., Math/Logic
RAMIREZ, MARTIN G., Biology
ROBERTO, FRANCISO F., Biochem
RUIZ, GREGORY M., Ecology

COLORADO

JONES, RAMONA L., Anthrpolgy

DELAWARE

THAYER, JULIAN F., Psych/Exp

DISTRICT OF COLUMBIA

COX, VIVIAN R., Economics
WILSON, WENDY L., Anthrpolgy

FLORIDA

APARICIO, MANUEL IV., Psych/Exp
SMITH, RONALD L., Psych/Exp

GEORGIA

HOLLOWAY, JIMMIE L., Sociology
IKOLI, ERNEST G. II, Economics
VEGA, NELLIE M., Biooceanog

ILLINOIS

CARSON, EMMETT D., Economics
FOUNTAIN, DONNA M., E/Mechanel
HARRISON, KIM H., Psychology
MC CANTS, CARL E., E/electrcl
RICHARDSON, DE JURAN, Math/Stats
SCOTT, JOCELYN E., E/Chemical

LOUISANA

BARABINO, GILDA B., E/Chemical
ESCOTT, SCOTT P., Biophysics
HOUSTON, GWEN M., Polit Sci

MARYLAND

BARNUM, CARON L., Physiology
BOOTH, JACQUELINE A., Psych/Dev
HUGHES ALVA T., Psych/Exp
LOPES, CHERYL E, Mpsych/Socl

MASSACHUSETTS

ALLSTON, RICHARD A., Chem/Analt
GUZMAN, CARMEN A., Sociology

MICHIGAN

BEALE, RUBY H., Psych/Socl
HARMSEN, RHEA H., Agricultur

MISSISSIPPI

LEWIS, JERRY L., Sociology

MISSOURI

LUGO, DELIA I., Anatomy

NEW JERSEY

GREENIDGE, NADIA C., Anthrpolgy

NEW MEXICO

SAAVEDRA, RALPH G., Math/Cmptr
WARREN, DIANN L., Psych/Socl

NEW YORK

AVILES, CATHLEEN A., Geophysics
BALMACEDA, MADELINE N., Psych/Pers
BYFIELD, NATALIE P., Polit Sci
FARIAS, JOYCE A., Social Sci
FAULKNER, MICHAEL A., Med Sci
FLORES, RICHARD J., Geology
HOWELL, MICHAEL W., Biooceanog
HUSBANDS, KAYE G., Economics
JEANTY, HENRY H., E/Electricl
MARGETSON, NEIL A., Anthrpolgy
MORGAN, LYNN M., Anthrpolgy
POE, JAMES F. JR, Social Sci
ROBERTS, GENEVA R., Geology
SPRINGER, CAROLYN M., Psych/Socl
SPRINGER, OSWALD L., Math/Cmptr

NORTH CAROLINA

HART, EDWIN D., Chem/Orgnc
PARKS, SHERI L., Social Sci
ROSS, STACY O., Genetics

OHIO

ANDERSON, KENNETH M., Psych/Exp
LETTON, ALAN, E/Chemcal
STEPHENS, ROBERT L. JR, Pharmacol
WILLIAMS, ALISON P., Chemphysel

OKLAHOMA

LEWIS, JACQUELYN R., Math/Cmptr

PENNSYLVANIA

PERINE, LORI A., Math/Apps

PUERTO RICO

ALVAREZ, ROBERT J., E/Aeronaut
DIVERSE-DIAZ, LUCIE D., Math/Apps
LABOY, JOSE I., Biochem
MARTINEZ, JUAN C., Molec Biol
OLIVER, MARIA T., Chem/Analt
ORTIZ, ABRAHAM, Chem/Analt
PADILLA-RIVERA, JOSE A., Linguistes
RAMIREZ, VIOLETA, Polit Sci
RIVERA, REDRO L., Microbiol
THOMPSON-COLON, JAMES A., Chemphysel
VILA-BARRETO, JOAQUIN S., Linguistes

SOUTH CAROLINA

ENGLISH, DORCAS E., Physiology
FISHER, THOMAS A., Chemphysel

TENNESSEE

RECIO, LESLIE, Med Sci

TEXAS

BOUYER, RHONDA H., E/Civil
CASTRO, ALEJANDRO L., Chem/Orgnc
CURTIS, AARON T., E/Electrcl
GARZA, JOSE M., Cell Biol
GONZALEZ, ROBERTO JR, Geology
GUTIERREZ, ROBERTO, Geology
HERRING, CURTIS O., Microbiol
MC KEE, CYNTHIA R., Physiology
TORRES-ACOSTA, IVAN L., E/Chemical

VIRGINIA

BRIGGS, FELICIA H., Genetics
COLDEN, MARGARET A., Pharmacol
JORDAN, BREVETTA O., Urb & Reg Pl
MC GILLIS, JOSEPH P., Biochem
SAUNDERS, ROYAL D., Biochem

WASHINGTON

SALAZAR, DEBRA J., Economics
ZEPEDA, LYDIA, Economics

WISCONSIN

SMITH, STEVEN J., Math/Stats
STEELE, LENA C., OP R/Math

FELLOWSHIP AND TRAINEESHIP AWARDS

Awards by Program and Field, Fiscal Year 1981

Fields	*Totals*	*Graduate Fellowships*	*Minority Graduate Fellowships*	*Minority Institution Graduate Traineeships*	*Postdoctoral Fellowships*
Engineering Sciences	72	60	11	—	1
Aeronautical	3	2	1		
Bio/Engineering	3	3			
Chemical	28	23	5		
Civil	2	1	1		
Electrical	13	10	3		
Electronics	7	7			
Materials	2	1			1
Mechanical	10	9	1		
Metallurgical	1	1			
Nuclear	2	2			
Engineering, Other	1	1			
Mathematical Sciences	60	43	11	4	2
Algebra or Number Theory	7	6			1
Analysis	3	3			
Applications of Math.	12	6	3	3	
Computer Science	25	20	4	1	
Geometry	2	1	1		
Logic or Fnd. of Math.	2	1	1		
Operations/Research	3	2	1		
Probability & Statistics	4	2	2		
Topology	2	2			
Physical Sciences	125	98	13	7	7
Astronomy	6	5			1
Chemistry	63	45	9	5	4
Earth Sciences	24	19	4		1
Physics	32	29		2	1
Life & Medical Sciences	225	144	32	23	26
Agriculture	7	3	2	2	
Biochemistry	28	20	4	2	2
Biology	53	29	8	11	5
Biophysics	5	2	1		2
Botany	9	8			1
Ecology	26	19	2		5
Genetics	14	11	2		1
Microbiology	17	8	3	2	4
Pathology	1	1			
Physiology	12	7	3		2
Life Sciences, Other	3	3			
Medical Sciences	32	21	4	6	1
Zoology	18	12	3		3
Social & Behavioral Science	159	100	38	11	10
Anthropology	25	19	5		1
Archaeology	3	3			
Economics	37	28	6	3	
Geography	2	2			
History & Phil. of Sci.	2	1			1
Linguistics	11	7	2		2
Political Science	13	7	4	2	
Sociology	13	4	4	4	1
Urban & Regional Planning	2	1	1		
Social Sciences, Other	6	2	3		1
Psychology	45	26	13	2	4
TOTAL USA	641	445	105	45	46
TOTAL FOREIGN	9	5			4
GRAND TOTAL	650	450	105	45	50